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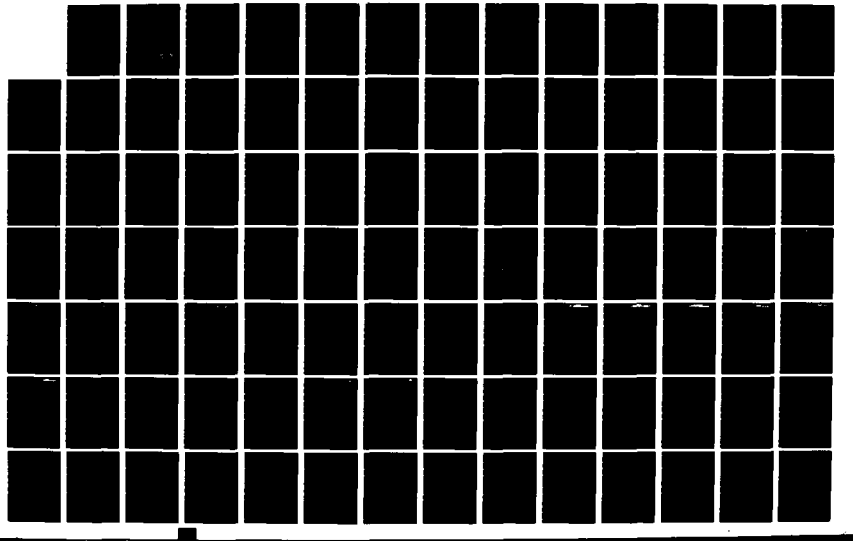

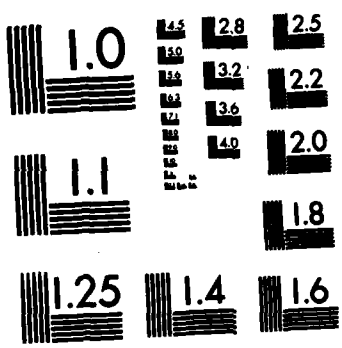

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EDITSPEC SYSTEMS MANUAL #3

VOLUME III: TABLE HANDLER AND TABLE DESCRIPTIONS

by
E. S. Neely

revised February 1982

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The EDITSPEC System is an automated system designed to produce construction specifications from Corps of Engineers Guide Specifications. The System uses one central computer and a communications network to provide remote terminal access by Corps offices, nationwide to a central data base.

This report describes machine-independent, table-handling routines and tables applied within EDITSPEC. The table design concepts and application programs are presented, and the tables used by the system are defined.

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ABSTRACT

This report describes machine-independent, table-handling routines and tables applied within the computer-aided construction specification preparation system known as EDITSPEC. The table design concepts and application programs are presented, and the tables used by the system are defined.

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FOREWORD

This investigation was performed for the Directorate of Military Construction, Office of the Chief of Engineers (OCE), under Project 4A762731AT41, "Design, Construction, and Operation and Maintenance Technology for Military Facilities"; Task T1, "Development of Automated Procedures for Military Construction"; Work Unit 009, "Computer-Based Specifications." The applicable QCR is 1.10.001. The OCE Technical Monitor was William Darnell. The table-handling programs were written by Jayant Krishnaswany.

The study was performed by the Management System Branch (Dr. O. E. Rood, Jr., Chief), Facility Acquisition and Construction Division (Mr. E. A. Lotz, Chief), U.S. Army Construction Engineering Research Laboratory (CERL).

COL L. J. Circeo, Jr., is Commander and Director of CERL and Dr. L. R. Shaffer is Technical Director.

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REVISION LIST

Revision Number	Date Revised	Reason for Revisions	Pages Revised

1 DESIGN CONCEPTS

Table Definition

A direct access data set or file is a group of physical records (see Figure 1). A data set can be divided into smaller entities called tables. A table can be defined as a named subset of a data set, or file, composed of unshared physical records. Each table contains a variable number of complete physical records, as shown in Figure 2. Physical records are dynamically assigned to tables on an as-needed basis and are not necessarily contiguous (see Figure 2). Each table may be given a unique four-word name for reference purposes.

Table Organization

Each table is divided into two logical units: the header records, and the data records (see Figure 3). Header records serve as a functional index or directory which can be searched rapidly to locate a pointer to the correct data record. Data records contain the basic information that is stored within a table. Information about each table is kept in a common area of the user's program.

There are two general types of tables in the EDITSPEC system: (1) system tables that contain information required by all users, and (2) document tables that contain information required by only a small portion of the users. Document tables contain information related to one section of contiguous text stored within the system.

Header Records Logical Unit

Header Sets

The header record logical unit is divided into header sets (see Figure 4), which minimize data retrieval time. Each header set has one super-header record and from one to six header records.

When the initial header set (known as the level 1 header set) contains six header records and a seventh must be added, a new header set (known as the level 2 header set) will be added above the first. This process minimizes access time and is performed automatically by EDIPEC.

The higher-numbered header set contains a list of the first item for each header record in the lower header set. This higher-numbered header set also keeps a list of the associated record of the lower header set.

The highest header set is searched for the key item required. The binary search program requires that an average of three logical records be read before a pointer to the next lower header set is located.

The search program must move to the second highest header set and progress downward to the first header set. Each search of a header set requires that one logical record be read that there be a binary search of that record.

For example, assume that the data related to key item 125 is required (see Figure 5). The search program would read R1 in header set No. 3 and determine that key 110 is the closest key given below the required key of 125. The program would read R3 from header set No. 2 and determine that key item 110 is the closest key given below the required key of 125. The program would move to R4 in header set No. 1 and locate key 125. In the example, the data related to key 125 is located in R10.

Header Records

Each header record contains either 241 or 243 standard units or words (see Figure 6). The first 240 standard units (SU) of the header are subdivided into lists in the following order:

1. Primary key lists
2. Secondary key lists
3. Data record I.D. list

The primary and secondary key lists may each be several words long. The list of all of the first words in a key is given before the list of the second words, etc. Secondary keys are only stored in header records at level 1. For example, assume that the following two items are in the table in one header record.

primary keys:	A1 A2 A3	B1 B2 B3
secondary key 1:	A11 A12	B11 B12
secondary key 2:	A21 A22	B21 B22
data record I.D.:	AIR	BIR

The header record would appear as shown in Figure 6. The 241st SU records the number of keys within the header record. The 242nd SU contains the preceding record ID (used only for NO - POINT tables). The 243rd SU contains the following record I.D. (used only for NO - POINT tables).

Super-Header Record

Each super-header record contains either 9 or 11 standard units or words defined a

Standard Unit	Definition
1	Header set level number
2	Number of standard units in the primary key of each data record
3	Maximum number of entries that can be placed into one level 1 header set header record (an entry is a primary key, associated secondary keys, and a data record I.D.)
4	Position of start of data record I.D. list in header set No. 1
5	Record I.D. for the super header in header set No. 1
6	Record I.D. for the last header record in header set No. 1
7	(Table storage mode + (number of regular header records)
8	First word of the largest key value in the table (table control word No. 1)
9	Optional word for table-specific applications (table control word No. 2)
10	Preceding record I.D. (used only for NO-POINT tables)
11	Following record I.D. (used only for NO-POINT tables)

Data Records Logical Unit

The data records within a table may be a mixture of both fixed-length and variable-length logical records. The organization of the data records varies from table to table and is defined for each.

Table Common Areas

Each table has a five-word common area defined as follows:

1. The portion of the file name that is unique to this table
   a. First word for system tables
   b. Last word for document tables
2. The record I.D. for the highest header set super header
3. The number of SU's in the primary key
4. The number of SU's in all secondary keys
5. The table storage mode.

2 APPLICATION PROGRAM DESCRIPTION

To implement the table handler, the user will apply the application program in all computer coding. The application of each routine is given in the remaining sections of this chapter. All parameters are of type INTEGER. The parameters are defined as follows:

ITEM	DESCRIPTION
IHDR	is a 243-SU array defined by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.
KEY	is a variable length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
COMMON	is the name of the five-word array which defines the information for the table in question and is given as input by the user.
IHDID	is the record I.D. of the header record in IHDR that is returned by the program.
LOC	is the SU in array IHDR that contains or the record I.D. of the key item data record.
IDREC	is the data record I.D. associated with the KEY item.
IFLAG	is the SU in array IHDR that contains the first word of the KEY item.

Before calling any table-handling routine, the following variables in blank common must be defined (except as noted):

FILNM (4)	is a four-word array used to define the table (file) name (exceptions: TBLCS, TBNXT, TBBK, TBFST, TBLST)
NDS	is a word used to define the data set number on which the table resides (exceptions: none).

ADD KEY WITH USER ID
TBADF

PURPOSE

This table handling routine adds one key item and the current user I.D. into the table header of a system format table.

GENERAL FORM

CALL TBADF (COMMON, KEY, IHDR, IHDID, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array which is declared by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IHDR	is a 243-SU array which is created by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.
	IHDID	is the record I.D. of the header record in IHDR that is returned by the program

LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five word array in common	no default; field required.
2. KEY	a. a one word format I.D. to be added b. if zero, the routine will assign a value for KEY	no default; field required.
3. IHDR	name of a 243-word array for the header record storage	no default; field required.
4. IHDID	name of a one-word variable for storing the record I.D. of the header record in IHDR	no default; field required.
5. LOC	a. SU where the record I.D. of the data record should be placed by the user. b. If returned negative, the KEY already exists in the table.	no default; field required.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURES

The user inputs values for COMMON & KEY. This routine adds KEY as a new entry to the table header for a system format table. The current user I.D. located in common area USID is added as the only secondary key. IHDR, IHDID, and LOC are returned by this program. If the key is added successfully, the user should call DKPUT for the data record and enter the record I.D. in array location IHDR (LOC); then, call DKPUT (IHDID, IHDR, 1, 240 *NCU) to store the header record.

ADD KEY WITH RECORD ID
TBADR

PURPOSE

This table-handling routine adds one key and its associated data record I.D. into the table header.

GENERAL FORM

CALL TBADR (COMMON, KEY, IDREC)

where	COMMON	is the name of the five, word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IDREC	is the data record I.D. associated with the KEY item.

ADD KEY WITH RECORD ID
TBADR

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. KEY	name of a variable word array defining the KEY	no default; field required.
3. IDREC		no default; field required.

SPECIAL NOTES

This routine assumes that KEY does not already exist in the table. All variables must be integers.

EXECUTION PROCEDURES

This routine adds one key and its data record I.D. to the header. If the key already exists, the routine will cause a data-handler error and a subsequent system abort.

PURPOSE

This table handling routine adds one key item into the table header.

GENERAL FORM

CALL TBADS (COMMON, KEY, IHDR, IHDID, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array which is created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IHDR	is a 243-SU array which is created by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.

IHDID	is the record I.D. of the header record in IHDID that is returned by the program.
LOC	is the SU in array IHDID that contains or points to the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. KEY	name of a variable word array defining the KEY	no default; field required.
3. IHDR	name of a 243-word array for the header record storage	no default; field required.
4. IHDID	name of a one-word variable for storing the record I.D. of the header record in IHDR	no default; field required.
5. LOC	a. position of the SU for storing the data record I.D. A positive value for LOC indicates a successful completion.	no default; field required.

b. negative of the SU of the record I.D. location when KEY already exists.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURE

The routine will add one KEY and return IHDR, IHDID, and LOC. If the KEY already exists, LOC will be set to the negative location of the record I.D.

OBTAIN PREVIOUS KEY
TBBK

PURPOSE

This table-handling routine will move to the previous KEY item.

GENERAL FORM

CALL TBBK (COMMON, IHDR, IFLAG, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	IHDR	is a 243-SU array which is created by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.
	IFLAG	is the SU in array IHDR that contains the first word of the KEY item.
	LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. IHDR	name of a 243-word array for the header record storage	no default; field required
3. IFLAG	a. name of the SU containing the first word of KEY.	no default; field required.
4. LOC	a. position of the SU which contains the key item data record I.D. A positive value for LOC indicates a successful completion. b. LOC is set to zero when the current KEY is the first KEY in the table.	no default; field required.

SPECIAL NOTES

This routine should be called only after a previous call to TBLCS. TBLCS defines IHDR, IFLAG, and LOC for a current KEY. All variables must be integers.

OBTAIN PREVIOUS KEY
TBBK

EXECUTION PROCEDURES

The routine will back up to the previous (next smaller) KEY entry. If the current KEY is the first (smallest) entry in the table, LOC is set to zero.

CHANGE KEY IF USER CREATOR
TBCHF

PURPOSE

This table-handling routine locates the KEY record I.D. and checks to insure that the user is the creator of the KEY.

GENERAL FORM

CALL TBCHF (COMMON KEY IDREC LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array which is created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IDREC	is the record I.D. of the data identified by the KEY item.
	LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. KEY	name of a variable word array defining the KEY	no default; field required.
3. IDREC	name of the record I.D. of key item data record	no default; field required.
4. LOC	a. position of the SU containing the key item data record I.D. A positive value for LOC indicates a successful completion. b. a zero indicates the KEY was not found c. a negative indicates the user is not the creator of the KEY.	no default; field required.

SPECIAL NOTES

All variables must be integers.

CHANGE KEY IF USER CREATOR
TBCHF

EXECUTION PROCEDURES

The routine locates the KEY and checks to see if the user is the creator. If the user is the creator, LOC is set to one. If the KEY does not exist, LOC is set to zero. If the user is not the creator, LOC is set to -1.

DELETE KEY IF USER CREATOR
TBDLF

PURPOSE

This table-handling routine deletes the KEY from the header if the user is the creator of the KEY.

GENERAL FORM

CALL TBDLF (COMMON, KEY, IDREC, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IDREC	is the record I.D. of the data identified by the KEY item.
	LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

DELETE KEY IF USER CREATOR
TBDLF

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMMON	name of a five-word array in common	no default; field required.
2. KEY	name of a variable-word array defining the KEY	no default; field required.
3. IDREC	name of the record I.D. of the the key item data record	no default; field required.
4. LOC	a. position of the SU containing the key item data record I.D. A positive value for LOC indicates a successful completion. b. LOC is set to zero if KEY does not exist. c. LOC is set to -1 if user is not the creator of key	no default; field required.

SPECIAL NOTES

All variables must be integers.

DELETE KEY IF USER CREATOR
TBDLF

EXECUTION PROCEDURES

The routine locates the KEY and checks to insure that the user is the creator. If the user is the creator, the KEY entries are deleted from the header and LOC is set to 1. If the KEY is not found, LOC is set to 0. If the user is not the creator, LOC is set to -1.

PURPOSE

This table-handling routine deletes a KEY from the table header.

GENERAL FORM

CALL TBDLS (COMMON, KEY, IDREC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array which is created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IDREC	is the record I.D. of the data identified by the KEY item.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. KEY	name of a variable-word array defining the KEY	no default; field required.
3. IDREC	a. name of the record I.D. of key item data record b. IDREC set to zero if KEY is not found.	no default; field required.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURE

The routine will locate KEY and delete it from the table header. If KEY is not found, IDREC will be set to zero.

PURPOSE

This table-handling routine locates one KEY item.

GENERAL FORM

CALL TBLCS (COMMON, KEY, IHDR, IFLAG, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IHDR	is a 243-SU array which is created by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.
	IFLAG	is the SU in array IHDR that contains the first word of the KEY item.

LOC — is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. KEY	name of a variable-word array defining the KEY	no default; field required.
3. IHDR	name of a 243-word array for the header record storage	no default; field required.
4. IFLAG	a. position of the first word of KEY. b. The negative of the position of the first word of the next larger entry when KEY is not in the table, and is not larger than the largest entry in the table. c. The negative of the position of the first word of the largest entry in the table when KEY is larger than the largest entry. d. -1 when the table is empty.	no default; field required.

5. LOC	a. Position of the su containing the key item data record I.D. A positive value for LOC indicates a successful completion. b. -1 when the table is empty.	no default; field required.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURES

The routine locates KEY and defines IHDR, IFLAG, and LOC. If the table is empty, IFLAG and LOC are set to -1. If the KEY is not found, IFLAG is set to the negative of the location of the nearest KEY entry larger than the KEY to be located (or if no such KEY entry exists, then it sets IFLAG to the negative of the location of the largest KEY entry in the table).

OBTAIN NEXT KEY
TBNXT

PURPOSE

This table-handling routine will move the next larger KEY item.

GENERAL FORM

CALL TBNXT (COMMON IHDR IFLAG LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	IHDR	is a 243-SU array defined by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required entry.
	IFLAG	is the SU in array IHDR that contains the first word of the KEY item.
	LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. IHDR	name of a 243-word array for the header record storage	no default; field required.
3. IFLAG	position of the SU containing the first word of KEY.	no default; field required.
4. LOC	a. position of the SU containing the key item data record I.D. A positive value for LOC indicates a successful completion. b. LOC is set to zero when the current KEY is the last KEY in the table.	no default; field required.

SPECIAL NOTES

This routine should be called only after a previous call to TBLCS. TBLCS defines IHDR IFLAG and LOC for a current KEY. All variables must be integers.

OBTAIN NEXT KEY
TBNXT

EXECUTION PROCEDURES

The routine will move forward to the next larger KEY entry. If the current KEY is the last (largest) entry in the table, LOC is set to zero.

PURPOSE

This table-handling routine will provide an unused KEY I.D. for the table header.

GENERAL FORM

CALL TBNAL (COMMON, KEY)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	KEY	is a variable-length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.

2. KEY	name of a variable-word array defining the KEY	no default; field required.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURE

The routine will return the next available KEY I.D. for use by the programmer.

OBTAIN FIRST KEY
TBFST

PURPOSE

This table-handling routine will locate the first KEY in the table.

GENERAL FORM

CALL TBFST (COMMON, IKEY, IHDR, IFLAG, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	IKEY	is a variable-length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IHDR	is a 243-SU array created by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.
	IFLAG	is the SU in array IHDR that contains the first word of the KEY item.
	LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. IHDR	name of a 243-word array for the header record storage.	no default; field required.
3. IFLAG	a. position of the SU containing the first word of KEY. b. negative when table is empty.	no default; field required.
4. LOC	a. position of the SU containing the key item data record I.D. A positive value for LOC indicates a successful completion. b. negative when table is empty.	no default; field required.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURES

The routine will locate the first KEY In the table. If the table is empty, IFLAG and LOC will be set to -1.

PURPOSE

This table-handling routine will locate the last KEY in the table.

GENERAL FORM

CALL TBLST (COMMON, IKEY, IHDR, IFLAG, LOC)

where	COMMON	is the name of the five-word array defining the information for the table in question and given as input by the user.
	IKEY	is a variable-length array created by the user. It contains the primary key definition. The length of this array must conform to the standard primary key length defined for the table being accessed.
	IHDR	is a 243-SU array created by the table-handler programs. It contains the header record in header set No. 1 that stores the data record I.D. for the required key entry.
	IFLAG	is the SU in array IHDR that contains the first word of the KEY item.
	LOC	is the SU in array IHDR that contains the record I.D. of the key item data record.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	name of a five-word array in common	no default; field required.
2. IHDR	name of a 243-word array for the header record storage	no default; field required.
3. IFLAG	a. position of the SU containing the first word of KEY b. negative when table is empty	no default; field required.
4. LOC	a. position of the SU containing the key item data record I.D. A positive value for LOC indicates a successful completion. b. negative when table is empty.	no default; field required.

SPECIAL NOTES

All variables must be integers.

EXECUTION PROCEDURES

The routine will locate the last KEY in the table. If the table is empty, IFLAG and LOC will be set to -1.

PURPOSE

This table-handling routine will delete the super header and all associated header records and replace the super header record located in the same table. The new header set must reside in the same table.

GENERAL FORM

CALL TBSHS (COMMON, NSHRI)

where	COMMON	is the name of the five word array defining the information for the table in question and given as input by the user.
	NSHRI	is the new super header record id.

FIELD OPTIONS

FIELD	OPTIONS	DEFAULT
1. COMMON	Name of a five-word array in common	No default field required.
2. NSHRI	a. new super header record id for header set switching b. zero (0) for header set and one data record deletion.	no default; field required

DELETE /RSWITCH HEADERSETS
TBSHS

SPECIAL NOTES

The new table-header sets must reside in this table. Only the data record given in the header will be deleted from the table.

EXECUTION PROCEDURES

The routine will save the record id of the super header and then delete data records if NSHRF is zero. The header set will be removed and replaced if NSHRI is not zero.

3 TABLE DOCUMENTATION

A new table will be documented and entered into the appendices in five sections:

1. A general description of the table's purpose will be placed in the table purpose list.

2. A modified form of DA Form 3493-R will be applied to conform to Army regulations.

3. Record diagrams will be drawn to illustrate the table's records.

4. A list of data values will be given, if appropriate.

5. A list of all subroutines applying to the table will be kept.

General Description

This description should be short -- approximately one paragraph of three simple sentences.

DA Form 3493-R

One DA Form 3493-R should be completed for each record type in the table. The following instructions should be followed in detail:

1. Page No. Enter the page name that applies to the record layout.

2. No. of Pages. Enter the total number of pages comprising the record layout.

3. Date. Enter the date that the record layout is approved for implementation.

4. Systems I.D. Leave blank.

5. Record Length. Enter the number of standard units (words) contained in the record being described. If the length varies, indicate minimum-maximum parameter or record length, or enter the word "variable".

6. Prepared By. Enter the name of the analyst/programmer responsible for developing the record layout.

7. Card, Disk, Tape, Other. Check the disk block which describes the type of record being illustrated.

8. Rec Per Blk. Leave blank.

9. Remarks. Leave blank.

10. Relative Position. Enter the position within the record for the information element being described (i.e., sequentially assigned field number).

11. Identification of Element (Field) and Abbreviation. Enter the number and name assigned for the information element being identified. Place the maximum number of standard units (words) required for the element in the abbreviation column.

12. Length/Class. Enter the number of characters or standard units (words) comprising the information element.

13. Location. Enter the left-most position of the record which contains the information element description.

Record Diagram

There should be one record diagram for each record type. Each data item should be identified clearly and its position and length within the record given.

Subroutines Applying to Table

A complete list of all subprograms that reference this table should be maintained and printed as the last page of documentation for each table.

4 SUMMARY

A machine-independent system for table handling within EDITSPEC has been developed. This report has presented computer programmers with a description of this system, including the design concepts and the table definitions.

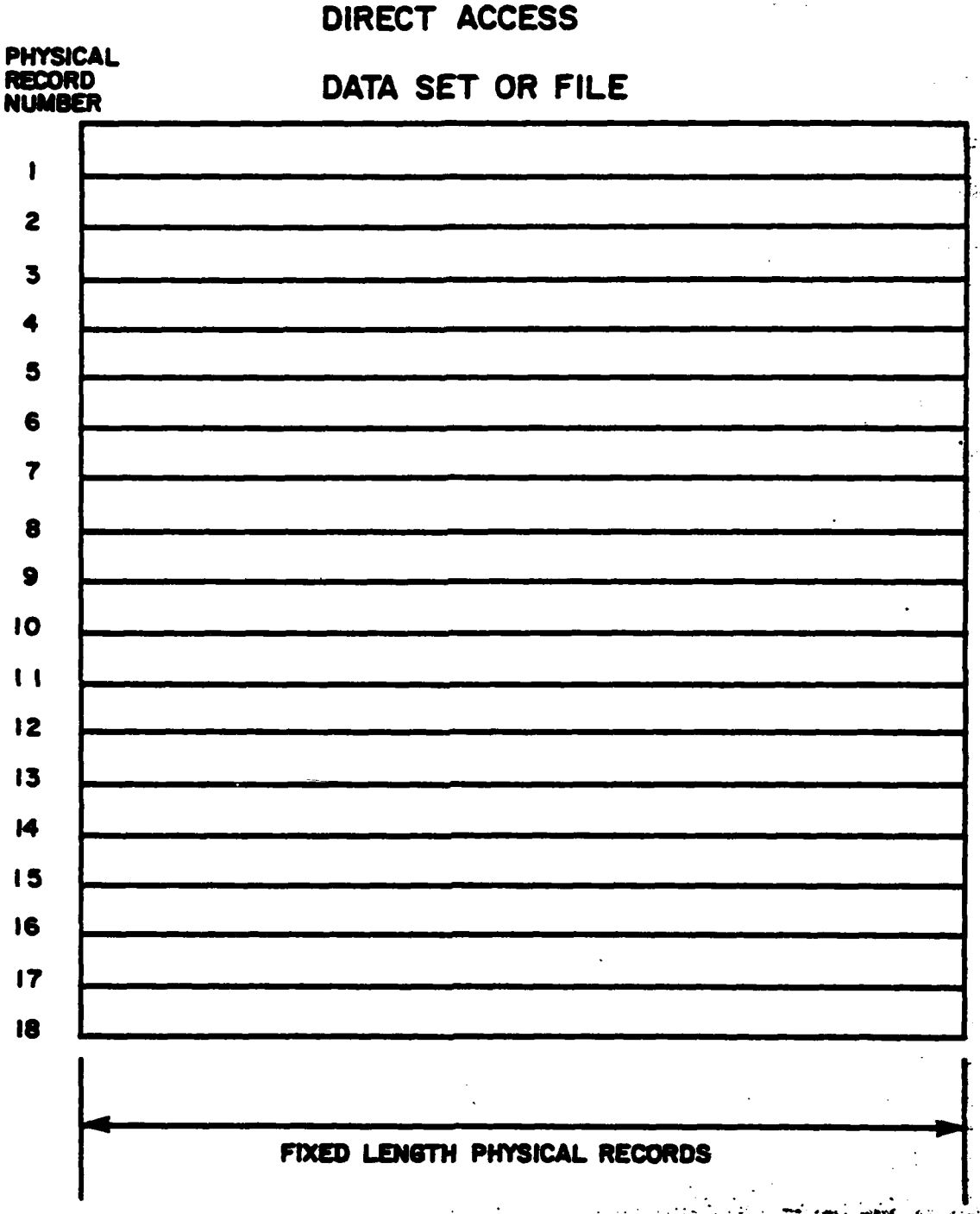


FIGURE 1 PHYSICAL RECORDS IN A DATA SET

DIRECT ACCESS

DATA SET OR FILE

PHYSICAL RECORD NUMBER	
1	TABLE A
2	TABLE B
3	TABLE A
4	TABLE C
5	TABLE B
6	TABLE C
7	TABLE A
8	TABLE A
9	TABLE C
10	TABLE C
11	TABLE B
12	TABLE B
13	UNASSIGNED
14	UNASSIGNED
15	UNASSIGNED
16	UNASSIGNED
17	UNASSIGNED
18	UNASSIGNED

FIXED LENGTH PHYSICAL RECORDS

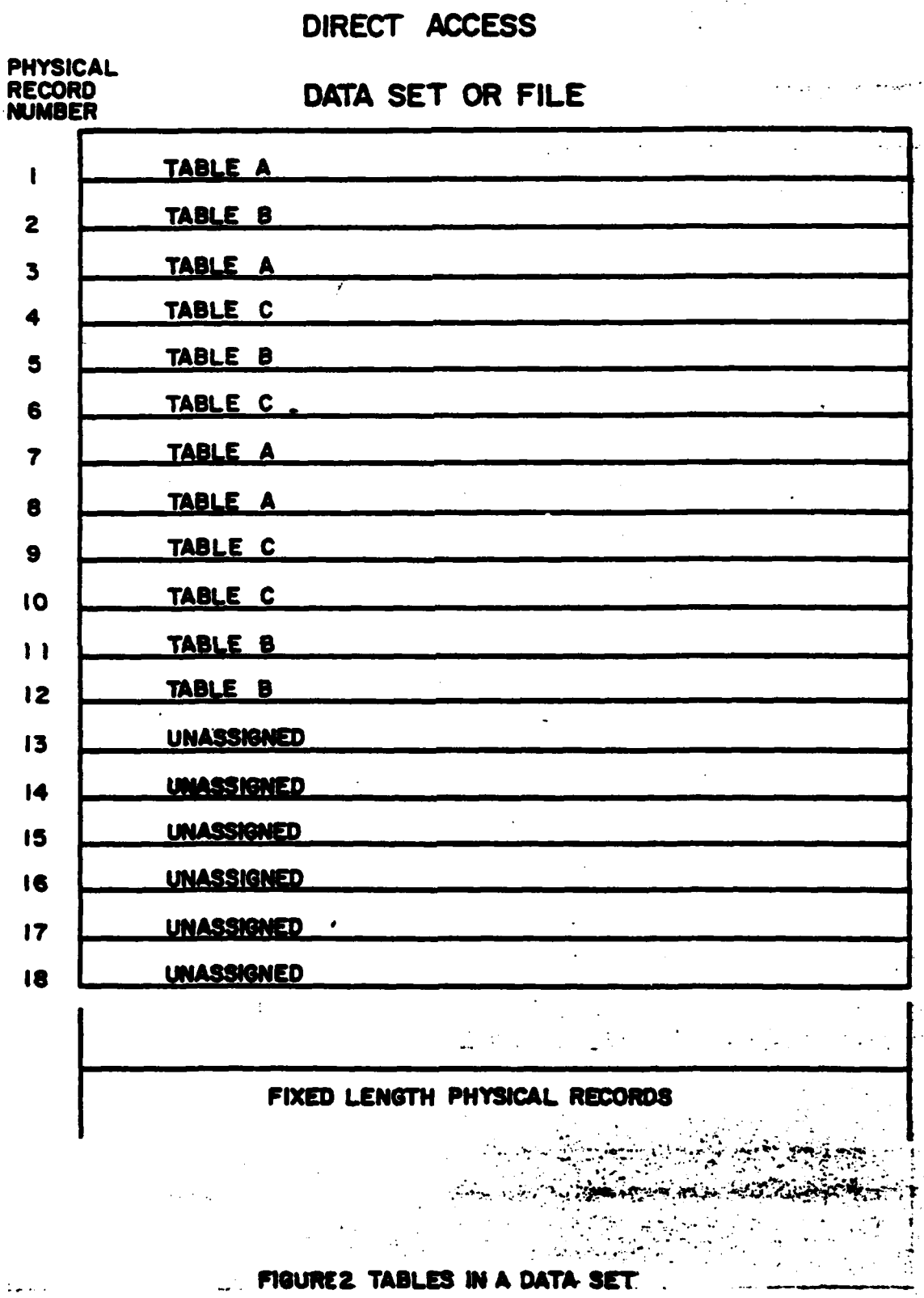


FIGURE 2 TABLES IN A DATA SET

TYPICAL TABLE

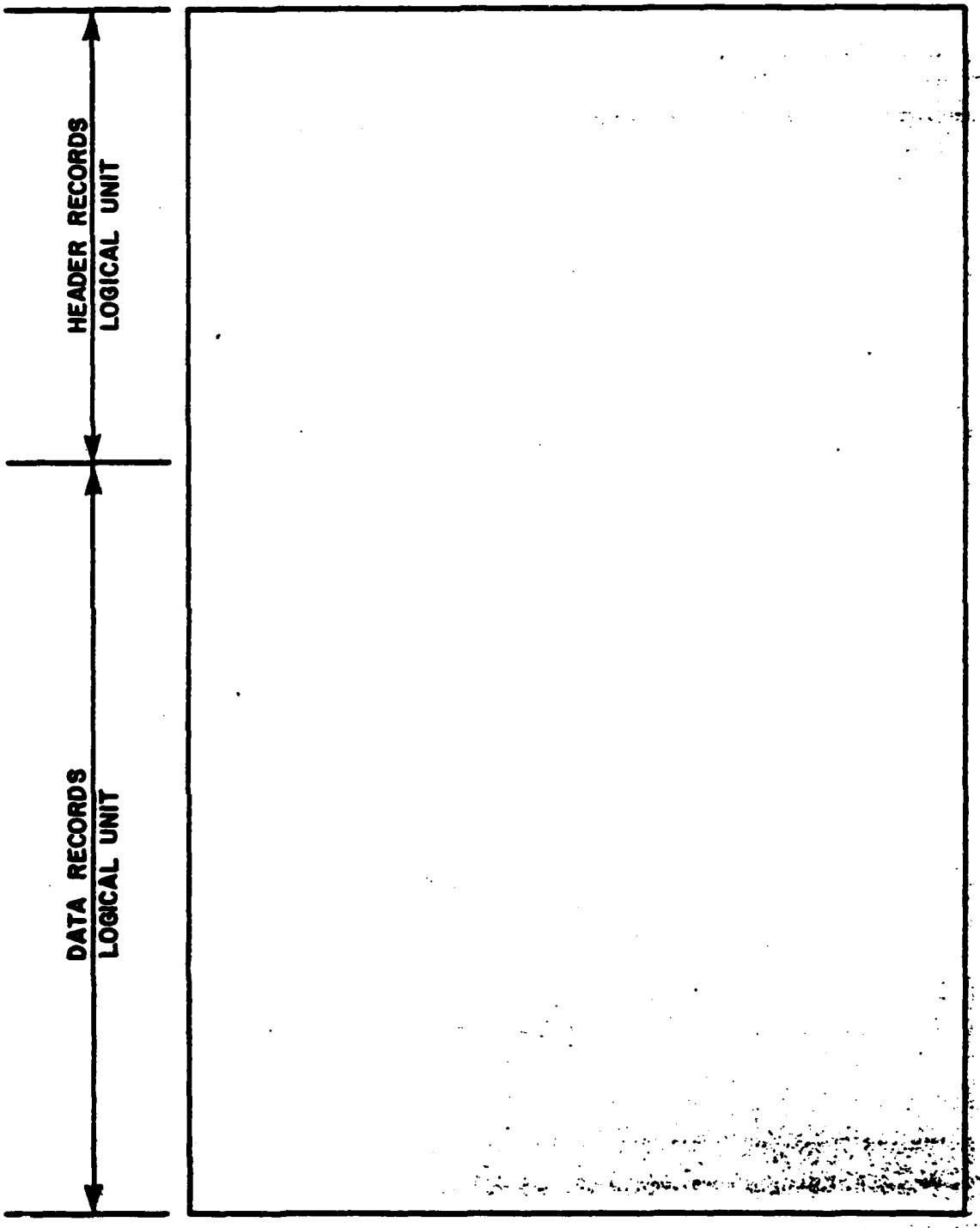


FIGURE 3. TABLE STRUCTURE

TYPICAL TABLE — HEADER RECORDS

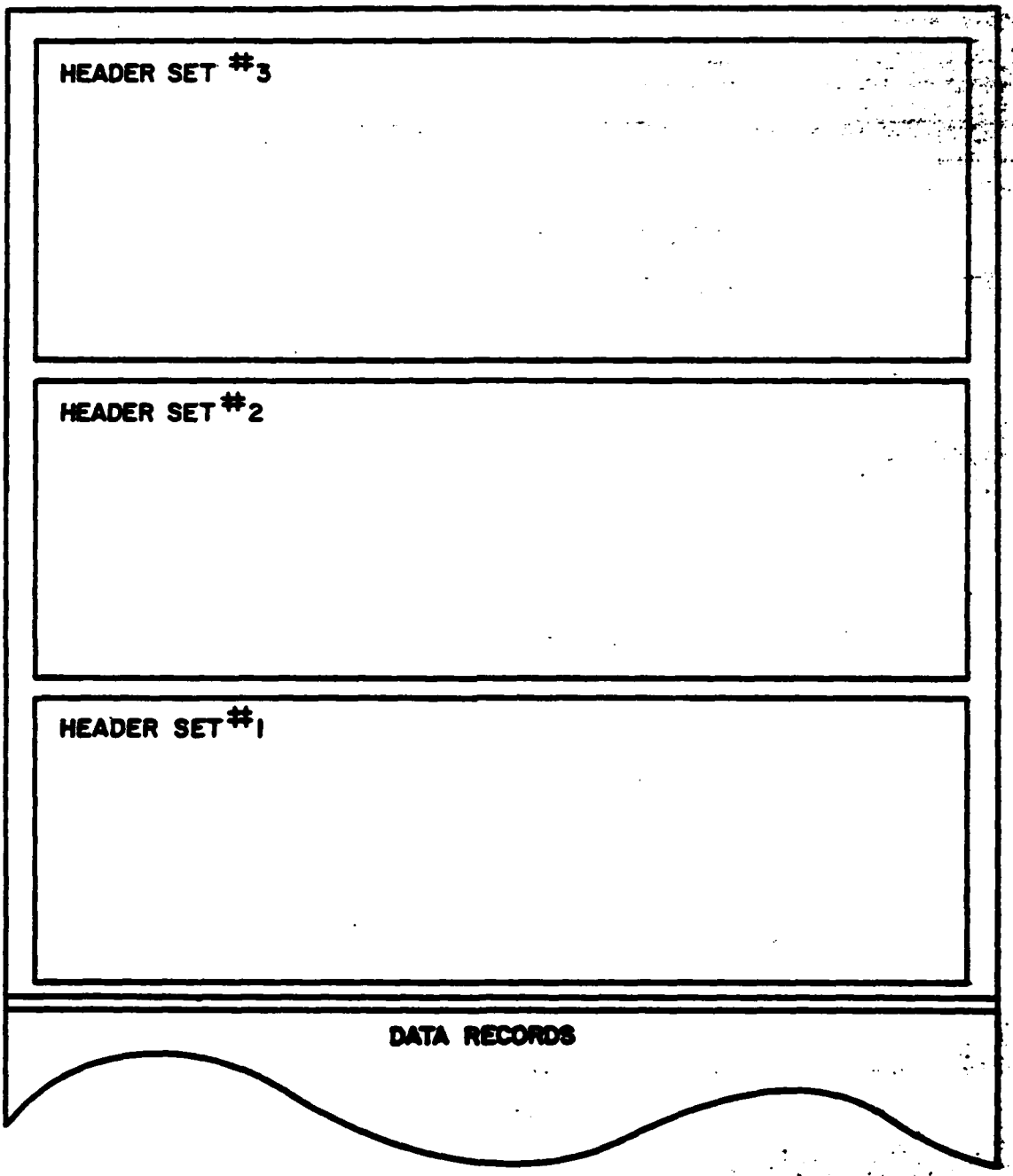


FIGURE 4 HEADER RECORDS LOGICAL UNIT STRUCTURE

TYPICAL TABLE-HEADER RECORDS

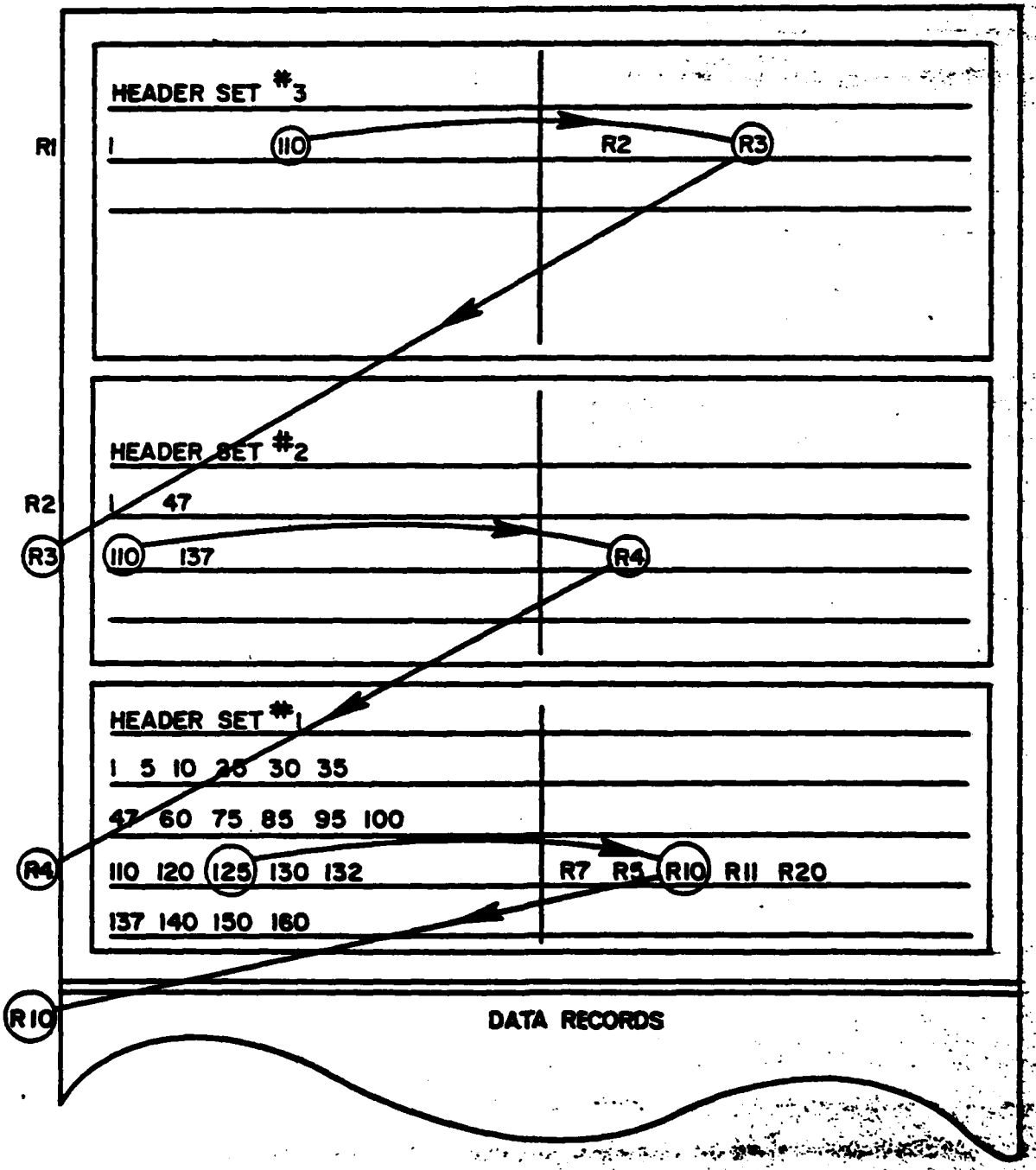


FIGURE 5 KEY ITEM LOCATION EXAMPLE

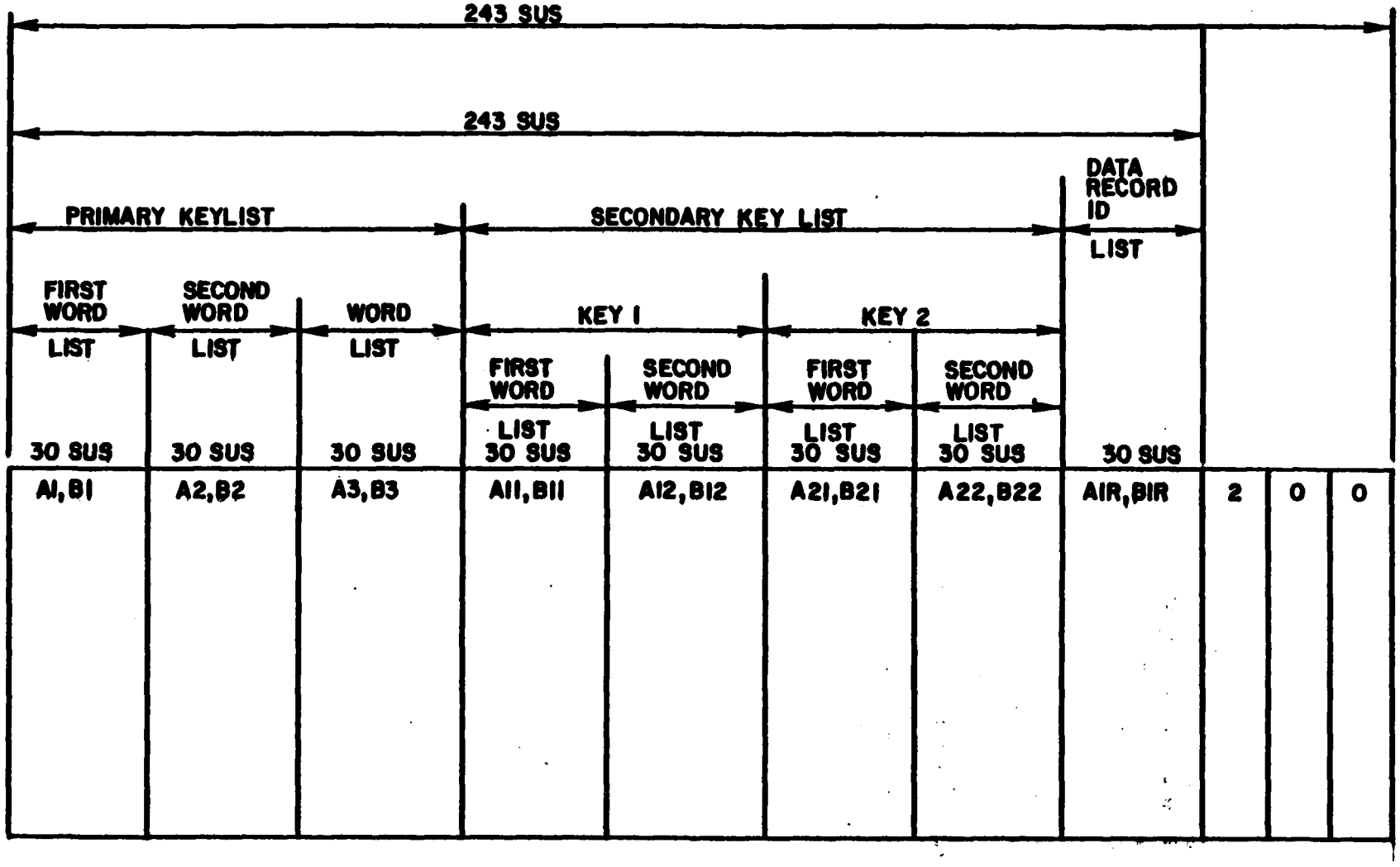


FIGURE 6 HEADER RECORD

ACCOUNTS TABLE Header Record		PAGE NUMBER 1	NUMBER OF PAGES 10
		DATE	
SYSTEM ID	RECORD LENGTH 240	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ISACS	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Account Number	3 SU	12 Chars	1-
2	Data Record - ID	1 SU	1 SU	Variable
	240 SU per record			
	(Account number is broken up by SU as shown in figure on page 4)			

ACCOUNTS TABLE Data Record Number 1		PAGE NUMBER 2	NUMBER OF PAGES 10
		DATE	
SYSTEM ID	RECORD LENGTH Fixed Compile	PREPARED BY Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISACS	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	ID of hot type 4 data record	1 SU	1 SU	1
2	User-ID of owner of account	3 SU	12 ctr	2
	Single type 1 data record is followed by a sequence (possibly of zero elements) of type 2 data records.			

ACCOUNTS TABLE Data Record Number 2		PAGE NUMBER 3	NUMBER OF PAGES 10
		DATE	
SYSTEM ID	RECORD LENGTH Fixed Computer	PREPARED BY Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISACS	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Dollars	1 SU	1 SU	1
2	Date	3 SU	9 ctrs	2
3	Time	2 SU	8 ctrs	Variable
4	User-ID	3 SU	12 ctrs	Variable
	Sequence of type 2 data records is terminated by a single type 3 data record. (If no one has been used this account, there may be no type 2 data records in the sequence).			

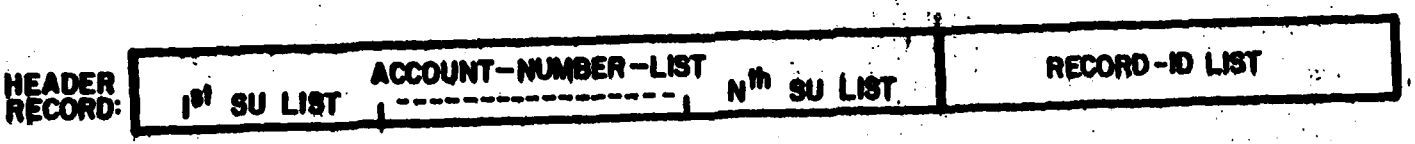
ACCOUNTS TABLE Data Record Number 3		PAGE NUMBER 4	NUMBER OF PAGES 10
		DATE	
SYSTEM ID	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ISACS	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Zero word (this record terminates a sequence of type 2 data records)	1 SU	1 SU	1

ACCOUNTS TABLE Data Record Number 4		PAGE NUMBER 5	NUMBER OF PAGES 10
		DATE	
SYSTEM ID	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISACS	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	10 User ID's per record			
1	User - ID with access to account	3 SU	12 ctrs	1
	Sequence of type 4 data records terminated by last record having at least one "zero" entry (No valid user-ID can be all zeros) to the right of valid user-ID entries. Since the owner of the account always has access to it, this sequence has atleast one valid entry.			

ACCOUNTS TABLE



TOTAL RECORD LENGTH = 240 SUs

EACH ACCOUNT NUMBER IS 12 CHARACTERS LONG, BROKEN UP INTO N STANDARD-UNITS (SUs)

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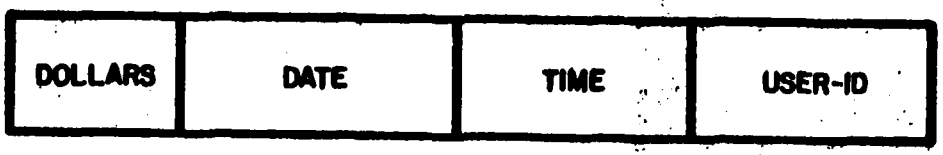
ACCOUNTS TABLE DATA RECORD TYPE I

RECORD ID OF FIRST TYPE 4 RECORD	USER-ID OF OWNER OF ACCOUNT

FIXED LENGTH RECORD, SIZE DETERMINED BY MACHINE CHARACTERISTICS.

ACCOUNTS TABLE DATA RECORD TYPE 2



SEQUENCE TERMINATED EITHER BY A ZERO-RECORD, OR BY NO MORE RECORDS, OR BY A DIFFERENT LENGTH RECORD

FIXED LENGTH RECORDS, SIZE DETERMINED BY MACHINE CHARACTERISTICS

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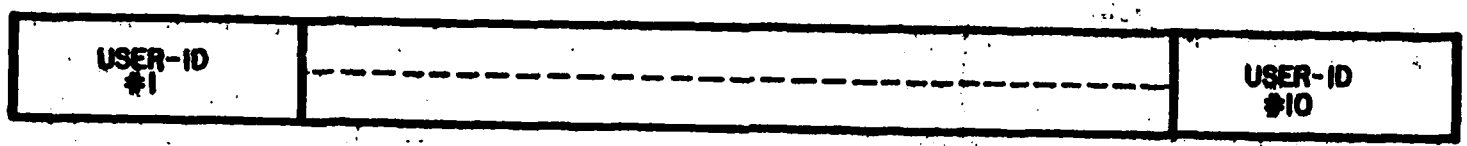
ACCOUNTS TABLE DATA RECORD TYPE 3

TOTAL RECORD LENGTH = 1 SU
(TERMINATING RECORD FOR SEQUENCE OF TYPE 2 DATA RECORDS)

ACCOUNTS TABLE DATA RECORD TYPE 4



ZERO USER-ID MARKS END OF SEQUENCE FIXED LENGTH RECORDS; SIZE DETERMINED BY MACHINE CHARACTERISTICS

BACKUP TABLE FOR SYSTEM TABLES Data Record #1 (No Header Records)		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISBAK	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Valid EDITSPEC Command which affects system tables	Variable	Variable	1

BACKUP TABLE FOR SYSTEM TABLES

DATA RECORD #1

VALID EDITSPEC COMMAND STRING

THE SIZE OF THE RECORD IS EXACTLY EQUAL TO THE SIZE OF THE COMMAND. THE CHARACTER REPRESENTATION IS INTERNAL EDITSPEC CODE.

BACKUP DOCUMENT DELETION/RENAME TABLE (No Headers) Data Record, Type 1		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ISBDD	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Old Document Name	3 SU	12 Chars	1
2	New Document Name	3 SU	12 Chars	Variable

BACKUP DOCUMENT DELETION/RENAME TABLE

DATA RECORD TYPE 1

OLD DOCUMENT NAME	NEW DOCUMENT NAME

ZERO "NEW DOCUMENT NAME" IMPLIES A DELETION
NON-ZERO "NEW DOCUMENT NAME" IMPLIES A RENAME.

FIXED LENGTH RECORDS; SIZE DETERMINED BY MACHINE CHARACTERISTICS.

backup tape index - by document/dataset/system table name (header)

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE 1/23/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ISBUC	
REC PER BLK	REMARKS HEADER		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
primary key	dataset/document/system table name (editspec notation)	3 s.u.	12 ctrs.	
data record id	record id for data record	1 s.u.	1 s.u.	
	1 data record			
	NO POINT			
	NO PACK			

backup tape index - by document/dataset/system table name (data record)

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 2	NUMBER OF PAGES 2
		DATE 3/7/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Neely & Kalstein	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISBUC	
REC PER BLK	REMARKS DATA RECORD		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	last used backup Ø:none 2:next to last 1:last 3:second from last BACKUP INFO: LAST	1 s.u.	1 s.u.	1
2	tape label of the tape containing the backup (EDITSPEC notation)	3 s.u.	12 ctrs.	2-4
3	File number; Record start number for Primary tables; Record start number for backup tables; Record length.	4 s.u.	4 s.u.	5-8
4	date (julian yyddd); time (Ø-2359) BACKUP INFO: next to last	2 s.u.	2 s.u.	9-1Ø
5-7	Same as last	9 s.u. total	9 s.u. total	11-19
8-1Ø	BACKUP INFO: second to last Same as last	9 s.u. total	9 s.u. total	2Ø-28

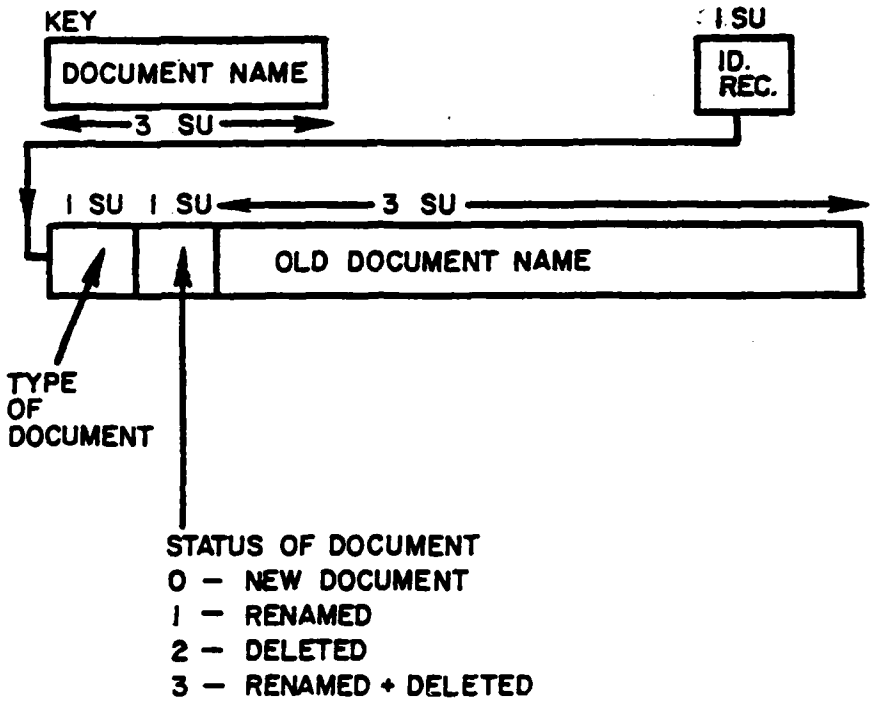
RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE 5/1/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Avramovic & Kalstein	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISBUP	
REC PER BLK	REMARKS HEADER RECORD		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
primary key	document/data set/ sys-table name	3 s.u.	12 ctrs	
data rec id	pointer to data record	1 s.u.	1 s.u	
	1 data record			
	POINT			
	NO PACK			

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 2	NUMBER OF PAGES 2
		DATE 5/1/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Avramovic & Kalstein	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISBUP	
REC PER BLK	REMARKS DATA RECORD		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Document/data set/system table type Ø=document 1=data set 2=system table	1 s.u.	1 s.u	
2	Status Ø=new document 1=renamed 2=deleted 3=renamed & deleted	1 s.u.	1 s.u	
3	Old Document Name (appears if & only if status= 1 or 3)	3 s.u.	12 ctrs	

ISBUP TABLE



IF STATUS = 0 OR 2 THERE IS NO OLD DOC. NAME

IF STATUS = 1 OR 3 THERE IS AN OLD DOC. NAME

backup tape index - by tape label (header)

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 3
		DATE 3/7/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Neely & Kalstein	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISBUT	
REC PER BLK	REMARKS HEADER		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
key	tape label	3 s.u.	12 ctrs.	
sec. key	subtable of names	1 s.u.	1 s.u.	
data record id	data record id of first data record	1 s.u.	1 s.u.	
	1 sub-table			
	data records			
	NO POINT			
	NO PACK			

backup tape index - by tape label (sub-table header)

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 2	NUMBER OF PAGES 3
		DATE 3/7/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Neely & Kalstein	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISBUT subtable	
REC PER BLK	REMARKS HEADER		

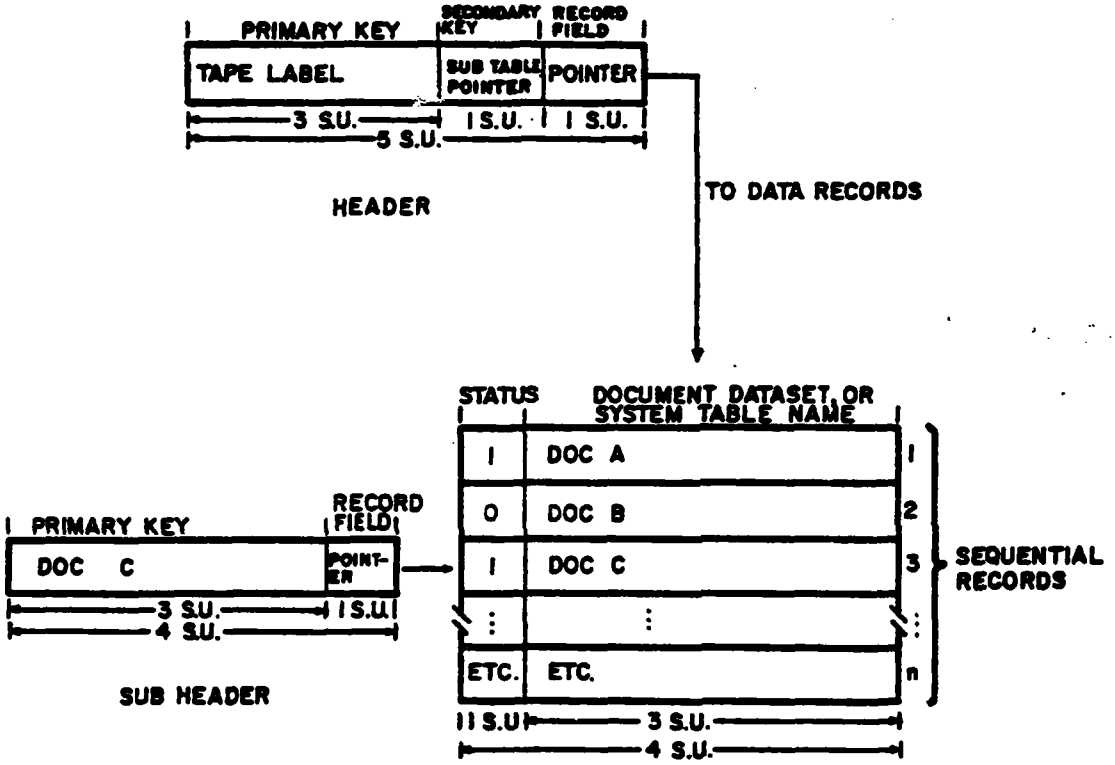
RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
key	doc/dataset/sys-table name	3 s.u.	12 ctrs.	
loc field	record id of corresponding data record	1 s.u.	1 s.u.	
	1 data record			
	NO POINT			
	NO PACK			

BACKUP TAPE INDEX - BY TAPE LABEL (DATA RECORD)

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 3	NUMBER OF PAGES 3
		DATE 3/7/79	
SYSTEM ID	RECORD LENGTH	PREPARED BY Neely & Kalstein	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ISBUT	
REC PER BLK	REMARKS DATA RECORD		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	status of document/dataset/ sys-table Ø=deleted 1=good	1 s.u.	1 s.u.	
2	name of document/dataset/ sys-table	3 s.u.	12 ctrs.	

03



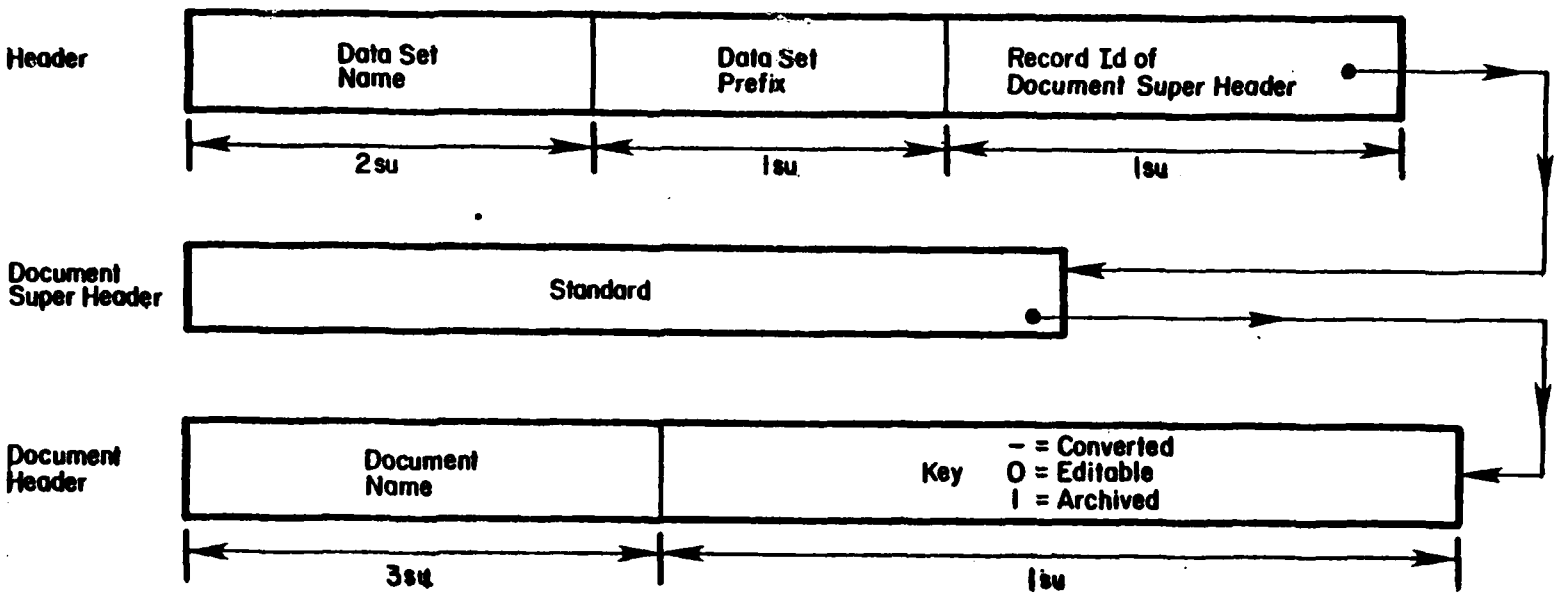
ISBUT TABLE STRUCTURE

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE 18 November 1982	
SYSTEM ID	RECORD LENGTH 240	PREPARED BY E.S. Neely	
○ CARD (XXX) DISK ○ TAPE ○ OTHER		FILE ID ISDDT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	Header			
1.	Data set name	2	6 ctrs.	
2.	Data set prefix- machine dependent accounting information	1	1 su	
3.	Record ID pointing to Document super header	1	1 su	
	Document Header			
1.	Document name in data set	3 set	12 ctrs	
2.	Status code - = Converted and not editable o = Normal editing 1 = Archived not editable	1	1	

DA FORM 3493-R, 1 May 69

ISDDT TABLE


Header
Data Set Name
Data Set Prefix
Record Id of Document Super Header
2su
1su
1su
Document Super Header
Standard
Document Header
Document Name
Key
– = Converted
0 = Editable
1 = Archived
3su
1su

DOCUMENT DIRECTORY Header Record		PAGE NUMBER 1	NUMBER OF PAGES 10
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISDIR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Document Name	3 SU	12 Chars	1-
2	Data Record - ID	1 SU	1 SU	Variable
	240 SU per record.			
	(Document name is broken up by SU, as shown in figure on pg. 5)			

DOCUMENT DIRECTORY Data Record, Type 1		PAGE NUMBER 2	NUMBER OF PAGES 10
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISDIR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Line Increment	1 SU	1 SU	1
2	Audit trail switch	1 SU	1 SU	2
3	Backup Edit switch	1 SU	1 SU	3
4	All users - read-only - switch	1 SU	1 SU	4
5	Record - ID of first type 2 data record ('all' users)	1 SU	1 SU	5
6	Record - ID of first type 3 data record (accessible users)	1 SU	1 SU	6
7	Audit Cycle # of Father document	1 SU	1 SU	7
8	Father document name	3 SU	12 Chars	8
9	Dataset - name	2 SU	6 Chars	Variable
10	Creator's USER-ID	3 SU	12 Chars	Variable
	Temp for Testing			
7	Number of Correct commands issued to date	1 SU	1 SU	7

DOCUMENT DIRECTORY Data Record Type 2 ("all" users)		PAGE NUMBER 3	NUMBER OF PAGES 10
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISDIR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	4 Masks per record			
1	'all' Mask	3 SU	12 Chars	1

DOCUMENT DIRECTORY Data Record Type 3 (accessible users)		PAGE NUMBER 4	NUMBER OF PAGES 10
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Meely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISDIR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	7 users per record			
1	Access Code	1 SU	1 SU	1
2	User - ID	3 SU	12 Chars	2

PC

DOCUMENT DIRECTORY

TOTAL RECORD LENGTH = 240

EACH DOCUMENT NAME IS 12 CHARACTERS LONG;
BROKEN UP INTO N STANDARD UNITS (S.U.)

DOCUMENT DIRECTORY

DATA RECORD TYPE 1

Temporary
Prototype Test ONLY
Number of Correct Commands
Issued to date

LINE-INCRE-MENT	AUDIT-TRAIL SWITCH	BACK-UP EDIT SWITCH	ALL-USERS READ-ONLY SWITCH	TYPE 2 DATA-RECORD-ID	TYPE 3 DATA-RECORD-ID	FATHER DOCU-MENT CYCLE #	FATHER DOCUMENT-NAME	DATA SET-NAME	CREATOR'S USER-ID

FIXED LENGTH RECORDS; SIZE DETERMINED BY MACHINE CHARACTERISTICS.

DOCUMENT DIRECTORY

DATA RECORD TYPE 2

("ALL USERS RECORD)

"ALL" MASK 1	"ALL" MASK 2	"ALL" MASK 3	"ALL" MASK 4

ZERO – "ALL" MASK MARKS END-OF-SEQUENCE.

FIXED LENGTH RECORD; SIZE DETERMINED BY MACHINE CHARACTERISTICS.

DOCUMENT DIRECTORY

DATA RECORD TYPE 3

(ACCESSIBLE-USERS RECORD)

ACCESS CODE 1	USER-ID 1	- - - - - - - - - - -	ACCESS CODE 7	USER-ID 7

ZERO USER-ID MARKS END OF SEQUENCE.

FIXED LENGTH RECORDS; SIZE DETERMINED BY MACHINE CHARACTERISTICS.

DOCUMENT DIRECTORY

STANDARD ITEM VALUES

DATA RECORD TYPE 1

1. Audit trail switch

   0 - No audit trail - default
   1 - Audit trail kept of text table
   2 - Audit trail kept of text table and all other commands
   3 - Notice Document

2. Abnormal Edit switch

   0 - Absolutely no checking of external references before editing text lines
   1 - All external references will be checked before editing an existing text line - default

3. Backup Edit switch

   0 - Document not edited since the last backup of the system - default
   1 - Document has been edited since the last backup of the entire system
   2 - Notice Document

4. All users read only switch

   0 - All users do not have access - default
   1 - All users have read only access

DOCUMENT DIRECTORY

STANDARD ITEM VALUES

DATA RECORD TYPE 2

1. User mask

    1. ? = match on any character
    2. ? ≠ match exactly as given

DATA RECORD TYPE 3

2. Access code

    1. read only
    2. read/write
    3. delete

STANDARD HEADER FOR ALL FORMAT TABLES DOCUMENT FORMAT TABLE		PAGE NUMBER 1	NUMBER OF PAGES 6
		DATE 9 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 243 SU	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISDOC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Format Id list	1 SU/key	1 SU/key	
2	Creators Id list	3 SU/key	12 ctrs/key	
3	Record Id list	1 SU/key	1 SU/key	
4	Table handler area	3 SU	3 SU	
	Total	243 SU		

DOCUMENT FORMAT TABLE DATA RECORD		PAGE NUMBER 2	NUMBER OF PAGES 6
		DATE 22 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH VARIABLE	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISDOC	
REC PER BLK	REMARKS		

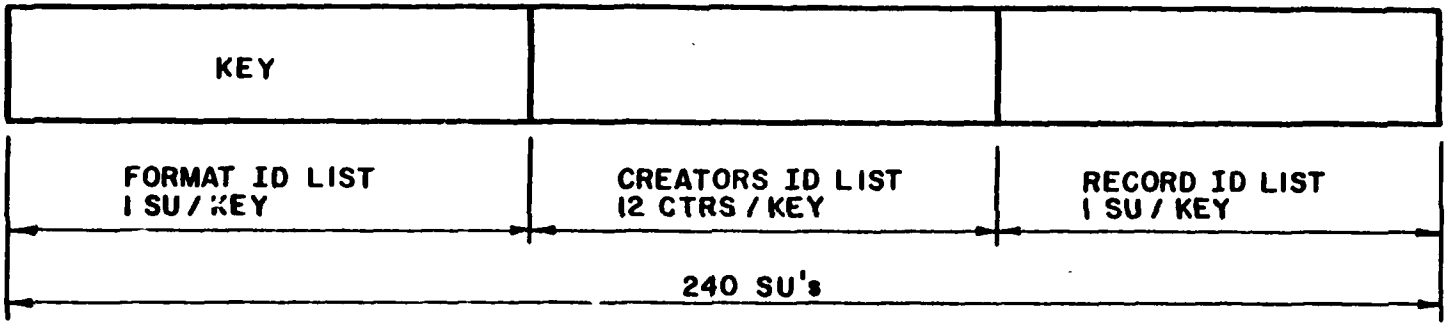
RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Footer Format Id	1 SU	1 SU	
2	Header Format Id	1 SU	1 SU	
3	Page Length	1 SU	1 SU	
4	Page Width	1 SU	1 SU	
5	Max. Paragraph Form Number	1 SU	1 SU	
6	Paragraph Numbering Format Id	1 SU	1 SU	
7	Paragraph No. printed bottom of pg	1 SU	1 SU	
8	Par. No. printed bottom pg first subfield to increment	1 SU	1 SU	
9	Par. No. printed bottom pg last subfield to increment	1 SU	1 SU	
10	Page Number Format Id	1 SU	1 SU	
11	No skip between page no and header/footer	1 SU	1 SU	
12	Left/right Justification	1 SU	1 SU	
13	Top margin - lines	1 SU	1 SU	
14	Bottom margin - lines	1 SU	1 SU	
15	Space flag/line columns	1 SU	1 SU	
16	Space line/text columns	1 SU	1 SU	
17	Space text/audit columns	1 SU	1 SU	
18	Space audit/cycle columns	1 SU	1 SU	

DOCUMENT FORMAT TABLE DATA RECORD		PAGE NUMBER 3	NUMBER OF PAGES 6
		DATE 22 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH VARIABLE	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISDOC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	1-9 Sets of Four SU's - (Max. Parag. Form Number)			
1	Paragraph Format Id	1 SU	1 SU	
2	Paragraph Number Subfield to Increment	1 SU	1 SU	
3	Paragraph Number first subfield to print	1 SU	1 SU	
4	Paragraph Number last subfield to print	1 SU	1 SU	

FORMAT TABLES - STANDARD HEADER RECORD

DOCUMENT FORMAT TABLE PAGE 3 OF 5



DOCUMENT FORMAT TABLE

ALL DATA RECORDS – SHEET 1 OF 2 PAGE 4 OF 5

1	2	3	4	5	6	7	8	9
FOOTER FORMAT ID	HEADER FORMAT ID	PAGE LENGTH	PAGE WIDTH	MAXIMUM PARAGRAPH FORM NUMBER	PARAGRAPH NUMBERING FORMAT ID	PARAGRAPH NUMBER TO BE PRINTED AT BOTTOM OF PAGE	1st. PARAG. SUBFIELD TO BE PRINTED	L st. PARAG. SUBFIELD TO BE PRINTED

1 SU PER ENTRY

10	11	12	13	14	15	16	17	18
PAGE NUMBER FORMAT ID	NO SKIP BETWEEN PAGE NUMBER AND HEADER/ FOOTER	LEFT/ RIGHT JUSTIFICA- TION	NUMBER OF LINES TO SKIP FOR TOP MARGIN	NUMBER OF LINES TO SKIP FOR BOTTOM MARGIN	SPACE BETWEEN FLAG/LINE COLUMNS	SPACE BETWEEN LINE/TEXT COLUMNS	SPACE BETWEEN TEXT/ AUDIT COLUMNS	SPACE BETWEEN AUDIT/ CYCLE COLUMNS

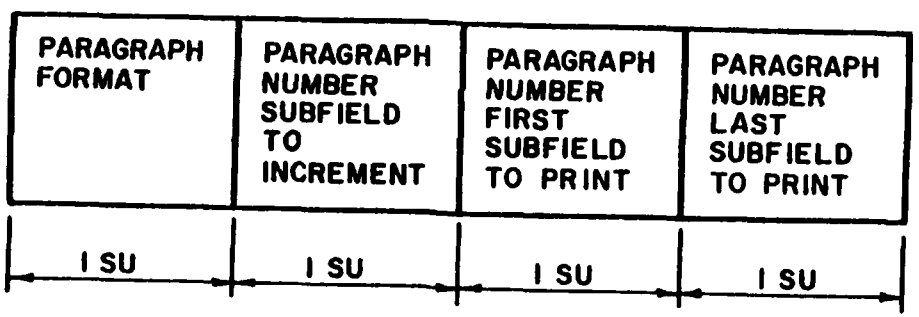
1 SU PER ENTRY

* OPTIMUM STORAGE
* NO POINT – NO PACK

DOCUMENT FORMAT TABLE

ALL DATA RECORDS - SHEET 2 OF 2 PAGE 5 OF 5

ONE SET OF FOUR SU's PER PARAGRAPH FORM

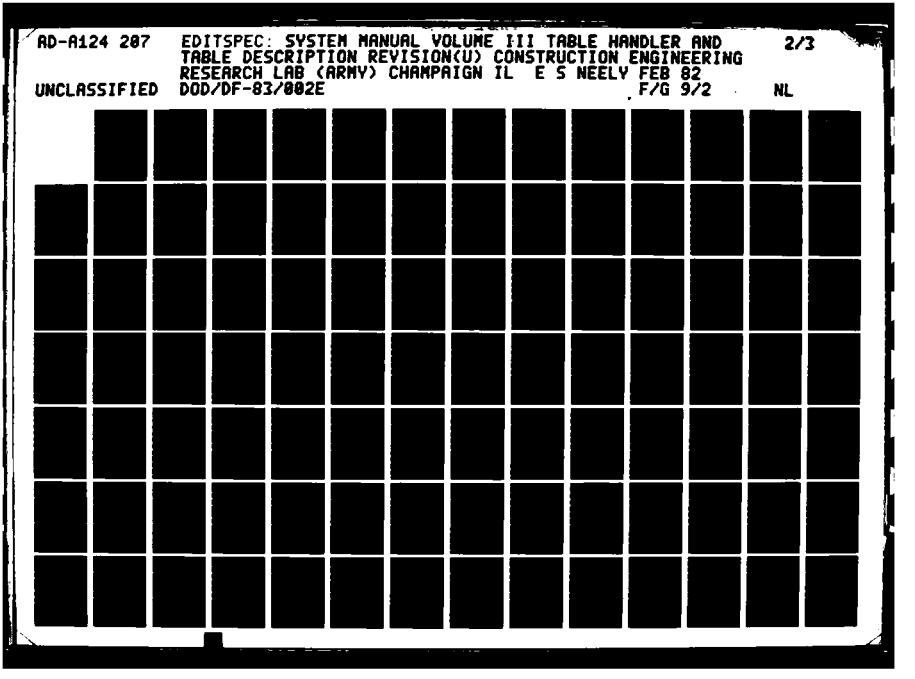


HEADER RECORD FOR FOOTER FORMAT TABLE		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE 12 Sep 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 240 SU	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISFOF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	FORMAT ID LIST	1 SU/Key	1 SU/key	
2	CREATOR ID LIST	3 SU/key	12 char/key	
3	RECORD ID LIST	1 SU/key	1 SU/key	

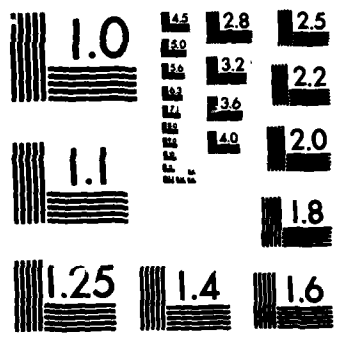
FOOTER FORMAT TABLE ALL DATA RECORDS		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE 12 Sep 77	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISFOF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Length of standard string	1 SU	1 SU	1
2	Length of inside string	1 SU	1 SU	2
3	Standard character string*	max 100 SU	max 400 chars	3--
4	Inside character string*			
	* both are in EDITSPEC notation			



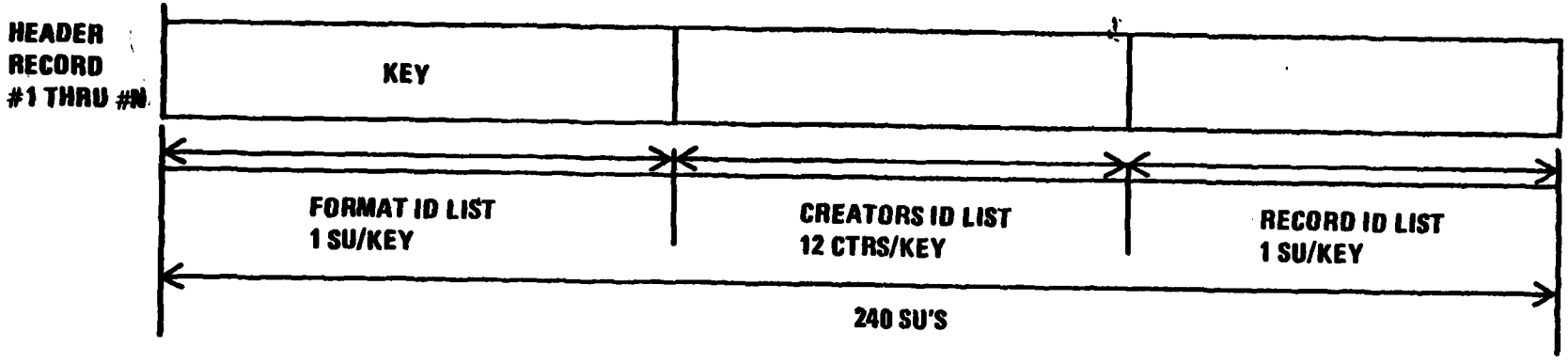
AD-A124 207 EDITSPEC: SYSTEM MANUAL VOLUME III TABLE HANDLER AND TABLE DESCRIPTION REVISION(U) CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL E S NEELY FEB 82 2/3

UNCLASSIFIED DOD/DF-83/002E F/G 9/2 NL



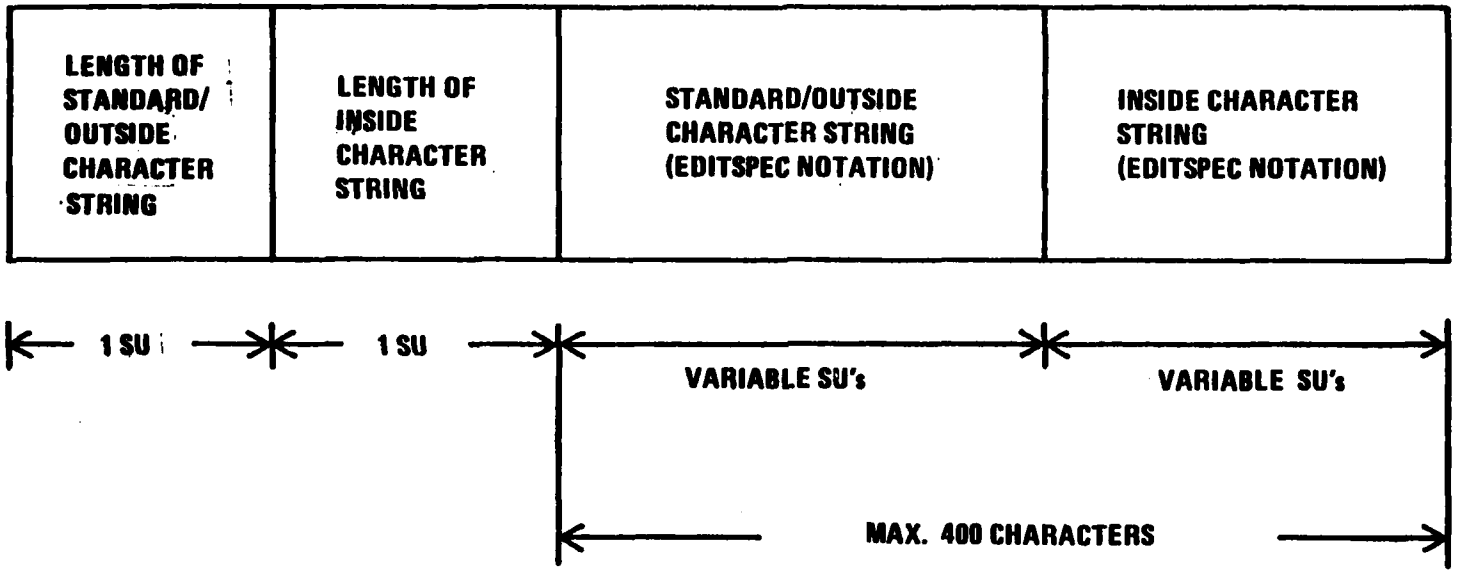
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

FOOTER FORMAT TABLE



1 – ALL S.U.'s ARE INTEGER/ALPHANUMERIC.
2– ALL SETS ARE STORED IN CORRECT NUMBERICAL ORDER OF THE FORMAT INDENT.
3 – A NEW HEADER RECORD IS ADDED AS SOON AS THE LAST SET OF THE LAST HEADER RECORD IS FILLED.

FOOTER FORMAT TABLE



* NO POINT – NO PACK

HEADER RECORD FOR HEADER FORMAT TABLE		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE 12 Sep 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 240 SU	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ISHEF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Format ID List	1 SU/key	1 SU/key	
2	Creator ID List	3 SU/key	12 char/key	
3	Record ID List	1 SU/key	1 SU/key	

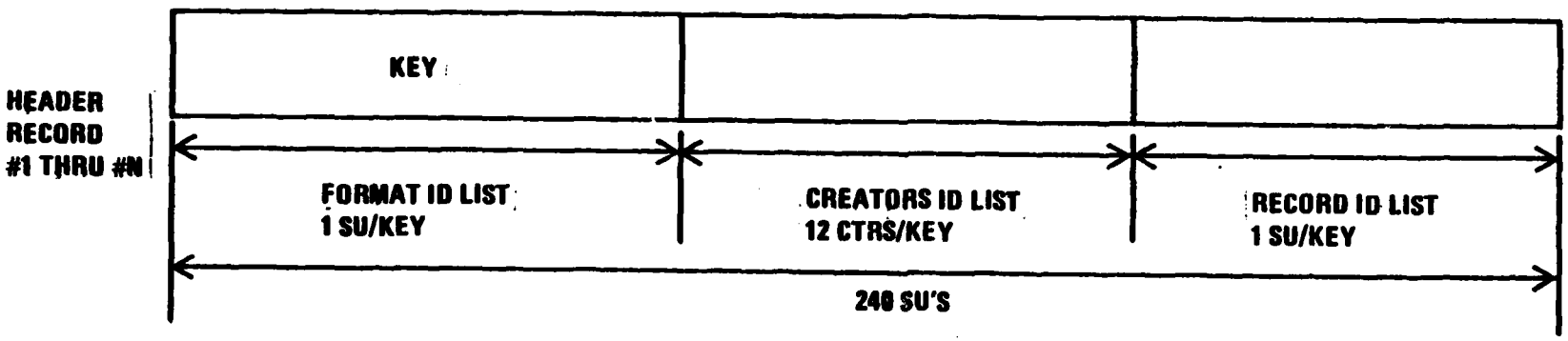
DA FORM 2402 P... 1 Y... 69

HEADER FORMAT TABLE All Data Records		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE 12 Sep 77	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISHEF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Length of standard string	1 SU	1 SU	1
2	Length of inside string	1 SU	1 SU	2
3	Standard character string*	max 100 SU	max 400 characters	3--
4	Inside character string*			

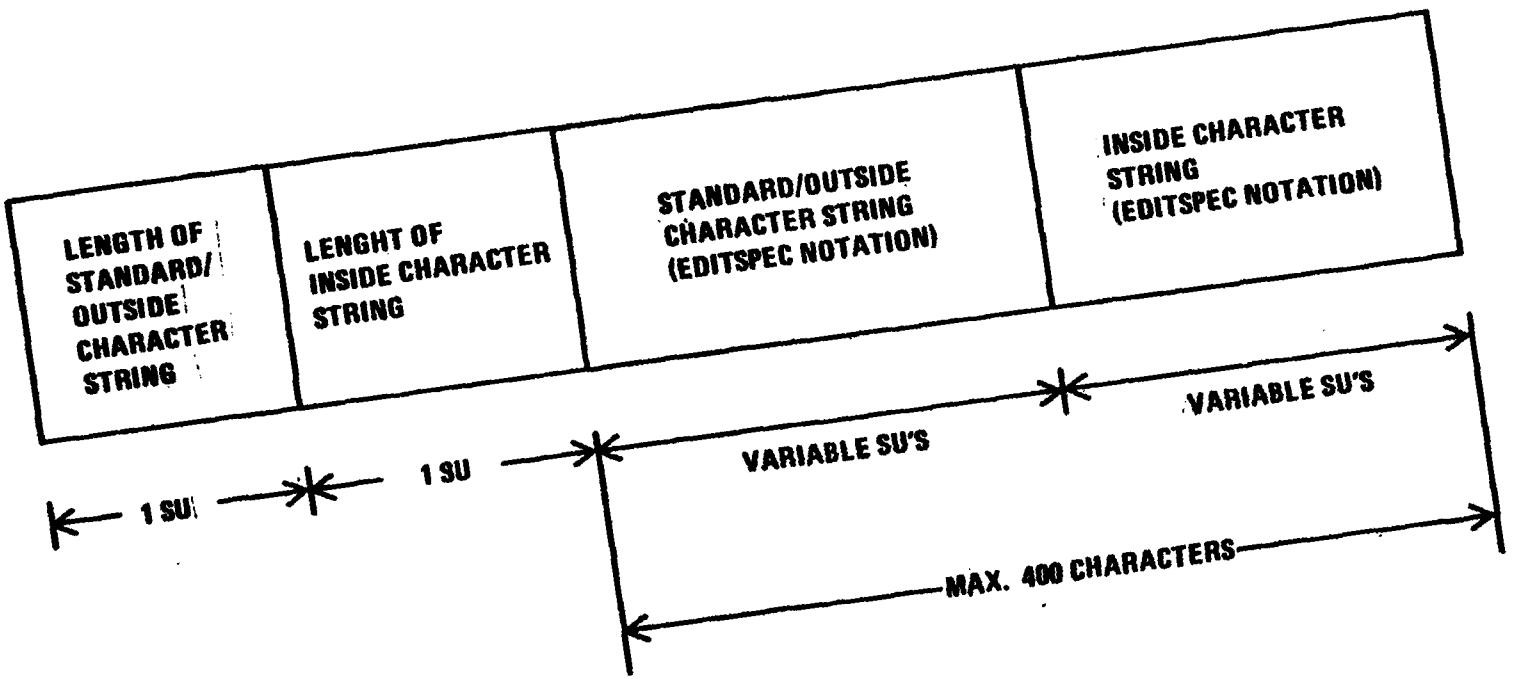
*both are in EDITSPEC notation

HEADER TABLE



1 – ALL S.U.'s ARE INTEGER/ALPHANUMERIC.
2 – ALL SETS ARE STORED IN CORRECT NUMERICAL ORDER OF THE FORMAT INDENT.
3 – A NEW HEADER RECORD IS ADDED AS SOON AS THE LAST SET OF THE LAST HEADER RECORD IS FILLED.

HEADER FORMAT TABLE



* NO POINT – NO PACK.

Keyword Index Tables

HEADER - FIRST LEVEL RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 7
		DATE March 6 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID KYWDT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	The Number of Characters in the Keyphrase	1 s.u.	1 s.u.	1
2	Record Id of the second level headers	1 s.u.	1 s.u.	2

HEADER - SECOND LEVEL RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 2	NUMBER OF PAGES 7
		DATE March 6 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID KYWDT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Actual English word in EDITSPEC NOTATION left justified. (Variable) Words = (Chars + NCAM)/NCU	10 s.u.	40 ctrs max (VAR)	1
2	Record Id of TYPW 2 DATA RECORD	1	1	2

Keyword Index Tables

TYPE L DATA RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 3	NUMBER OF PAGES 7
		DATE March 6 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID KYWDT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	System Assigned Keyword Number (keep=1, nokeep=-)	1	1	1
2	Status Switch	1	1	2
3	Number of Documents referencing this word	1	1	3
4	List of the actual Document Names Rejuencing this word	3 s.u.'s	3	4

Keyword Index Tables

Record Type 1 RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 4	NUMBER OF PAGES 7
		DATE March 6 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID KYWDT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Creators User Id	3 s.u.	3 s.u.	1
2	Inversion Switch 0-none, 1-invert	1 s.u.	1 s.u.	2
3	Record Id of keyword number list	1 s.u.	1 s.u.	3
4	Total number of Documents assigned to this index	1 s.u.	1 s.u.	4
5	List of Document			
5a	Document Name	3 s.u.	3 s.u.	5a
5b	Automatic Change Switch 0-yes 1-no	1 s.u.	1 s.u.	5b

HEADER - THIRD LEVEL RECORD LAYOUT

For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.

PAGE NUMBER	NUMBER OF PAGES
5	7

DATE: March 6, 1979

SYSTEM ID	RECORD LENGTH	PREPARED BY
		Ed Neely

( ) CARD (X) DISK ( ) TAPE ( ) OTHER

FILE ID: KYWDT

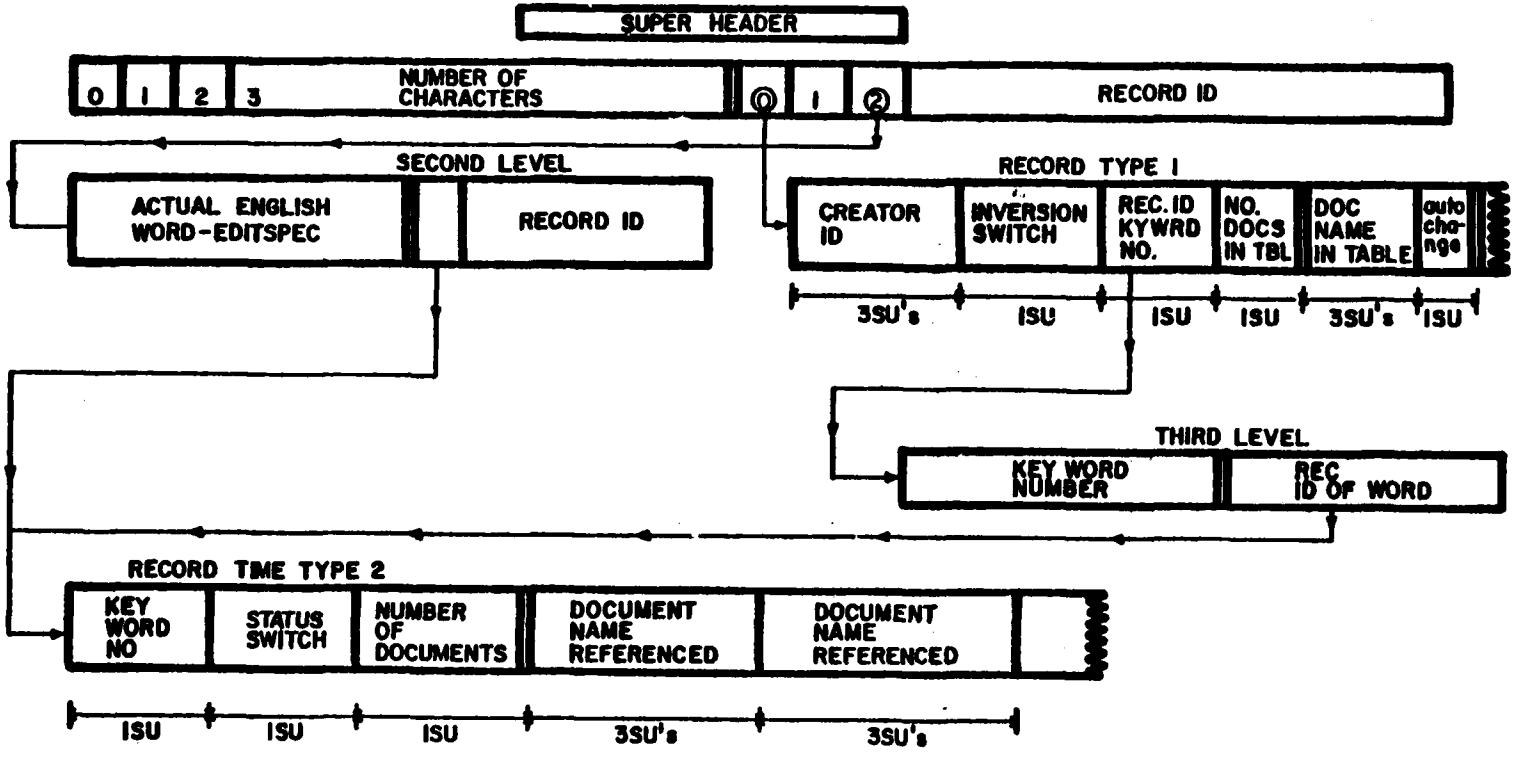
REC PER BLK	REMARKS

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	System Assigned Keyword Number	1 s.u.	1 s.u.	1
2	Record Id of TYPE 2 DATA RECORD	1 s.u.	1 s.u.	2

DA FORM 3493-R 1 Mar 80

EACH KEYWORD INDEX TABLE

FIRST LEVEL -
NUMBER OF CHARACTERS IN THE KEY PHRASE



VALUES PERMITTED

SYSTEM ASSIGNED KEYWORD NUMBER	
+	The word is to be kept
-	The word is not to be kept

STATUS SWITCH	
+3	Phrases only where (N-2) equil to the number of phrases applyins this word as the first word in the phrase.
+2	This is a complete phrase.
0	Word only
-3	Phrases and word where (-N-2) equil to the number of phrases applying this word as the first word in the phrase.

STANDARD HEADER FOR ALL FORMAT TABLES PAGE NUMBERING FORMAT TABLE		PAGE NUMBER 1	NUMBER OF PAGES 5
		DATE 9 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 243 SU	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISPGN	
REC PER BLK	REMARKS		

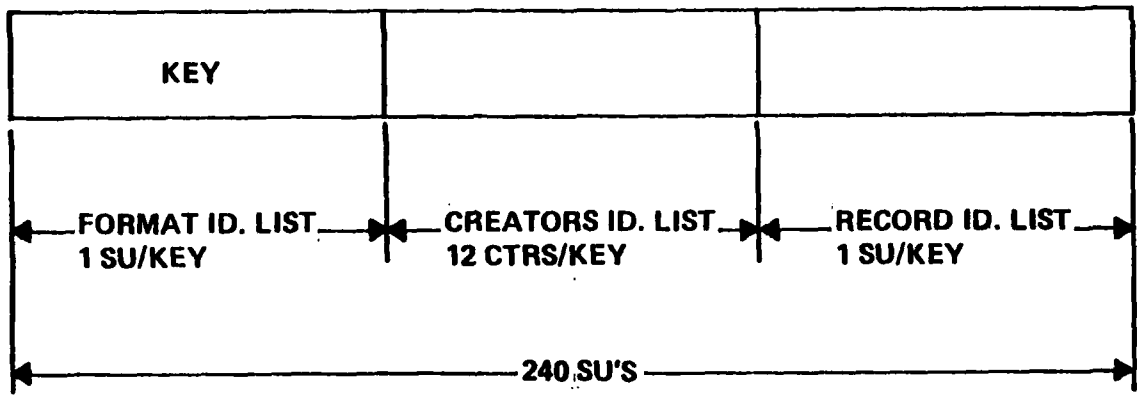
RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Format Id list	1 SU/key	1 SU/key	
2	Creators Id list	3 SU/key	12 ctrs/key	
3	Record Id list	1 SU/key	1 SU/key	
4	Table handler area	3 SU	3 SU	
	Total	243 SU		

PAGE NUMBERING FORMAT ALL DATA RECORDS	PAGE NUMBER 2	NUMBER OF PAGES 5
	DATE 4 September 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ISPGN
REC PER BLK	REMARKS	

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Location on page	1 S.U.	1 S.U.	1
2	Starting page	1 S.U.	1 S.U.	2
3	Page Justification	1 S.U.	1 S.U.	3
4	Subfield type (numeric)	6 S.U.	6 S.U.	4-9
5	Subfield type (alphabetic)	6 S.U.	6 S.U.	10-15
6	Subfield last character to increment	6 S.U.	6 S.U.	16-21
7	Subfield last character to print	6 S.U.	6 S.U.	22-27
8	Total number of characters initialized	1 S.U.	1 S.U.	28
9	Total number of subfields defined	1 S.U.	1 S.U.	29
10	Initialized string	max. 60 S.U.		30-89

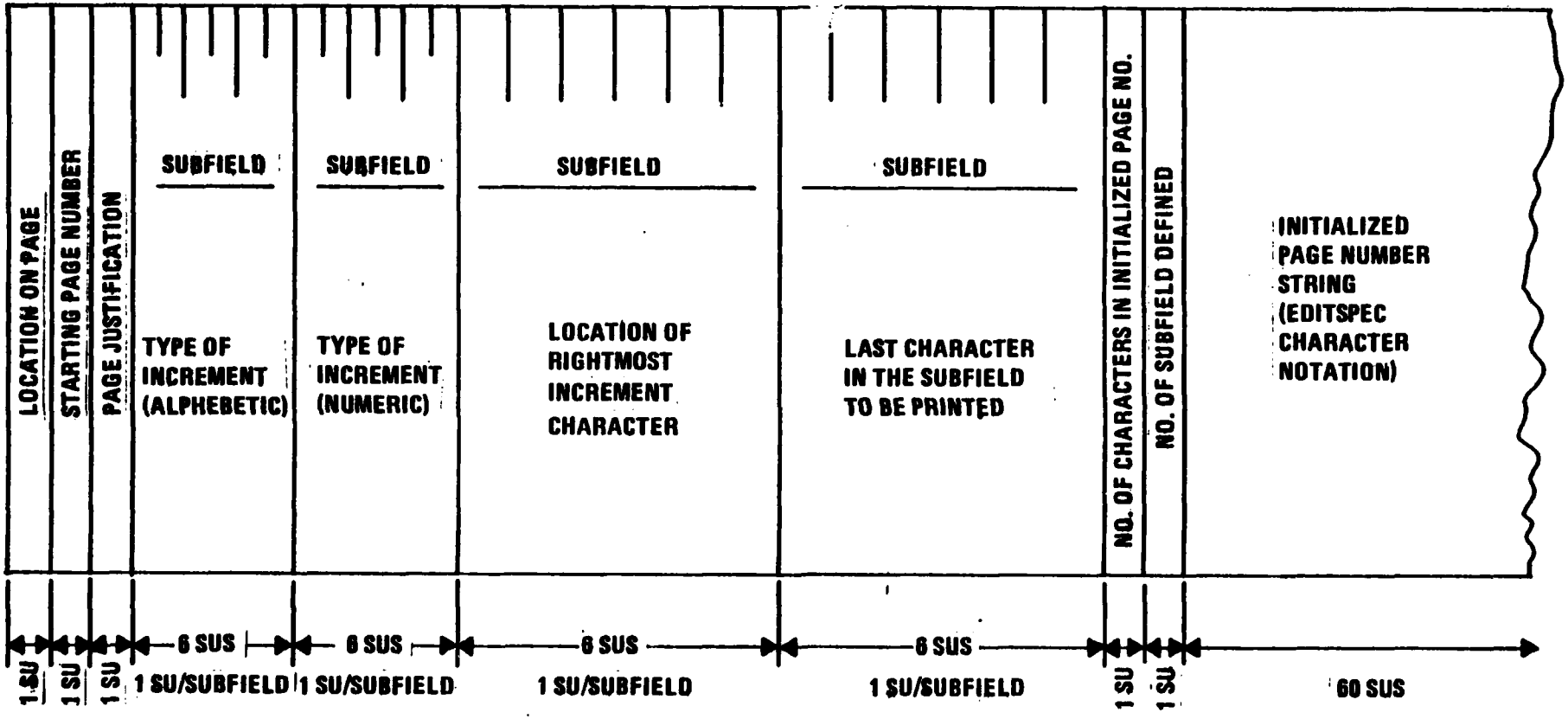
PAGE NUMBERING FORMAT TABLE

HEADER RECORD
#2 THRU #N



1 – ALL S.U.'S ARE INTEGER/ALPHANUMERIC.
2 – ALL SETS ARE STORED IN CORRECT NUMERICAL ORDER OF THE FORMAT INDENT.
3 – A NEW HEADER RECORD IS ADDED AS SOON AS THE LAST SET OF THE LAST HEADER RECORD IS FILLED.

PAGE NUMBERING FORMAT TABLE



*OPTIMUM STORAGE

NO POINT – NO PACK

4 November 1976

Ed Neely

Page Numbering Format

Standard Item Values

1. Location on Page

   1.1 Bottom of page = 1 = default
   1.2 Top of page = 2

2. Start on Page Number

   2.1 Page 1 = 1 = default
   2.2 Page 2 = 2
   2.3 Page 3 = 3

3. Page Justification

   3.1 Center = 1 = default
   3.2 Left = 2
   3.3 Right = 3
   3.4 Outside = 4

4. Type of Increment

		Nos	Alpha
4.1 Arabic (B)	=	0	B
4.2 Alphabetic Upper (A)	=	-1	C
4.3 Alphabetic Lower (AL)	=	-1	A
4.4 Roman Upper (R)	=	Actual Arabic No + 1	T
4.5 Roman Lower (RL)	=	Actual Arabic No + 1	R

STANDARD HEADER FOR ALL FORMAT TABLES PARAGRAPH FORMAT TABLE		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE 9 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 243 SU	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISPRF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Format Id List	1 SU/key	1 SU/key	
2	Creators Id List	3 SU/key	12 Ctrs/key	
3	Record Id List	1 SU/key	1 SU/key	
4	Table handler area	3 SU	3 SU	
	Total	243 SU		

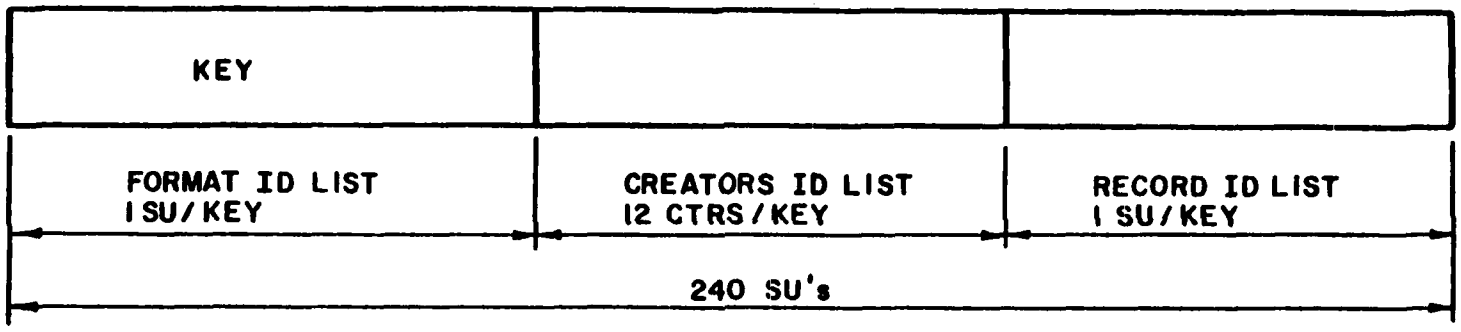
DA FORM 2402 P... 1 Mar 69

PARAGRAPH FORMAT TABLE ALL DATA RECORDS		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE 9 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 3 SU	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISPRF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Indentation of First Print Line from Left Margin	1 SU	1 SU	1
2	Indentation of all Other Print Lines from Left Margin	1 SU	1 SU	2
3	Indentation of all Lines from Right Margin	1 SU	1 SU	3
	* Optimum Storage			

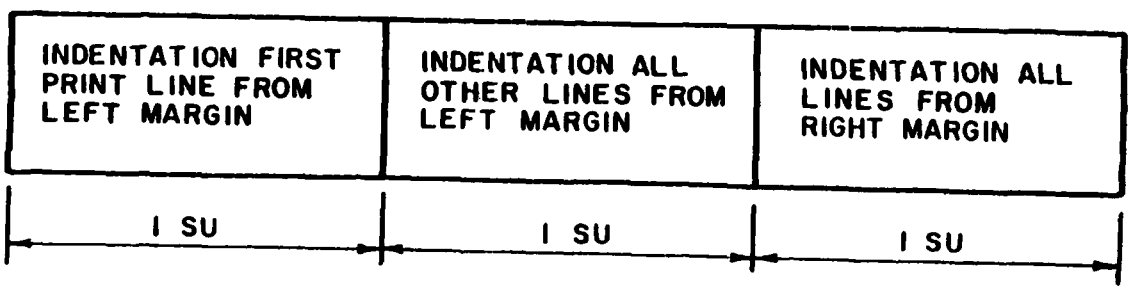
FORMAT TABLES - STANDARD HEADER RECORD

PARAGRAPH FORMAT TABLE PAGE 3 OF 4



PARAGRAPH FORMAT TABLE PAGE 4 OF 4

ALL DATA RECORDS



* OPTIMUM STORAGE
* NO POINT - NO PACK

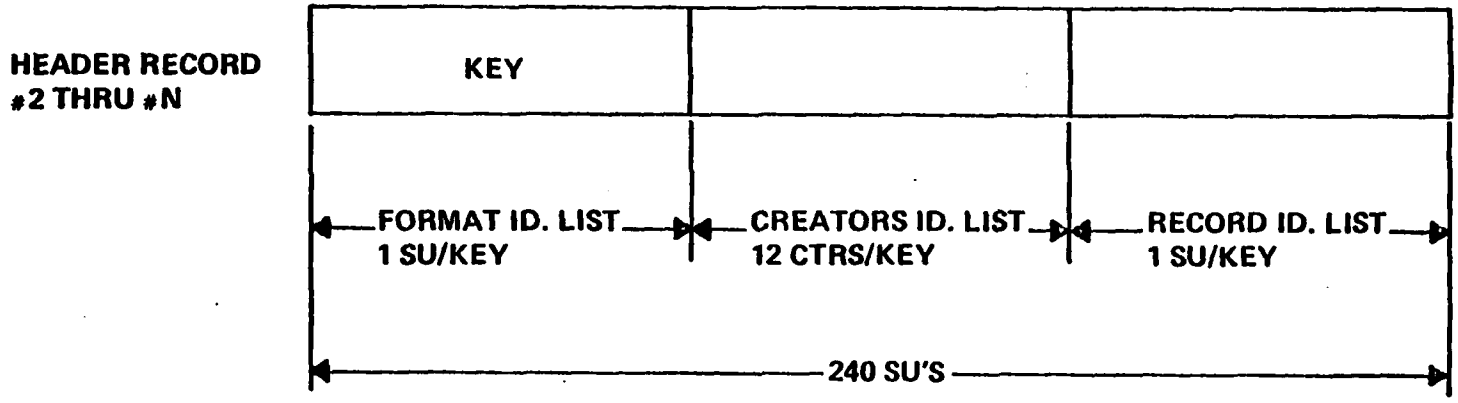
STANDARD HEADER FOR ALL FORMAT TABLES PARAGRAPH NUMBERING FORMAT TABLE		PAGE NUMBER 1	NUMBER OF PAGES 5
		DATE 9 Aug 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 243 SU	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISPRN	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Format Id list	1 SU/key	1 SU/key	
2	Creators Id list	3 SU/key	12 ctrs/key	
3	Record Id list	1 SU/key	1 SU/key	
4	Table handler area	3 SU	3 SU	
	Total	243 SU		

PARAGRAPH NUMBERING FORMAT TABLE ALL DATA RECORDS		PAGE NUMBER 2	NUMBER OF PAGES 5
		DATE 4 September 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISPRN	
REC PER BLK	REMARKS		

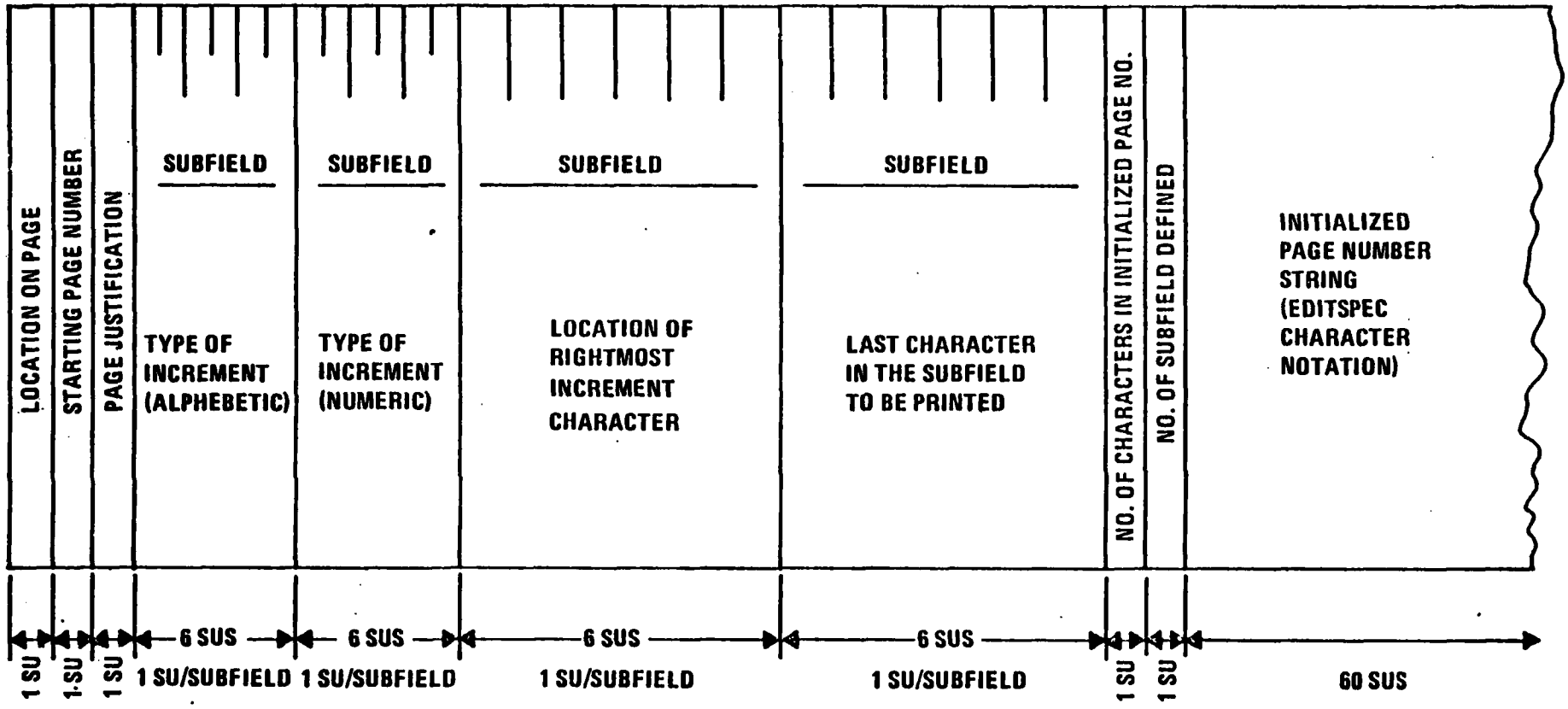
RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Subfield Type (numeric)	6 S.U.	6 S.U.	1-6
2	Subfield Type (alphabetic)	6 S.U.	6 S.U.	7-12
3	Subfield location of last character to increment	6 S.U.	6 S.U.	13-18
4	Subfield location of end character	6 S.U.	6 S.U.	19-24
5	Total No. of characters in initialized No.	1 S.U.	1 S.U.	25
6	Total No. of subfields defined	1 S.U.	1 S.U.	26
7	Initialized string	max. 60 S.U.		27

PAGE NUMBERING FORMAT TABLE



1 – ALL S.U.'S ARE INTEGER/ALPHANUMERIC.
2 – ALL SETS ARE STORED IN CORRECT NUMERICAL ORDER OF THE FORMAT INDENT.
3 – A NEW HEADER RECORD IS ADDED AS SOON AS THE LAST SET OF THE LAST HEADER RECORD IS FILLED.

PAGE NUMBERING FORMAT TABLE



*OPTIMUM STORAGE

NO POINT – NO PACK

4 November 1976

Ed Neely

PARAGRAPH NUMBERING FORMAT

STANDARD ITEM VALUES

1 Type of Increment	Numeric	Alphabetic
1.1 Arabic (B)	= 0 = default	B
1.2 Alphabetic Upper (A)	= - 1	C
1.3 Alphabetic Lower (AL)	= - 1	A
1.4 Roman Upper (R)	= Actual Arabic No. + 1	T
1.5 Roman Lower (RL)	= Actual Arabic No. +1	R

SPECIFICATION CONDITION TABLE Level 1 Reader Record		PAGE NUMBER 1	NUMBER OF PAGES 6
		DATE April 1978	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISSPC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Guide Specification Name	2 SU/Guide	8ctrs/ guide	
2.	No. of conditions defined	1 SU/Guide	1 SU/ guide	
3.	Record ID to level 2 tables	1 SU/Guide	1 SU/ guide	

SPECIFICATION CONDITION TABLE Level 2 Super Header		PAGE NUMBER 2	NUMBER OF PAGES 6
		DATE April 1978	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISSPC 2	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Number of header records at this level	1 SU	1 SU	1
2.	Number of level 2 data records	1 SU	1 SU	2
3.	ID of last header record at this level	1 SU	1 SU	3

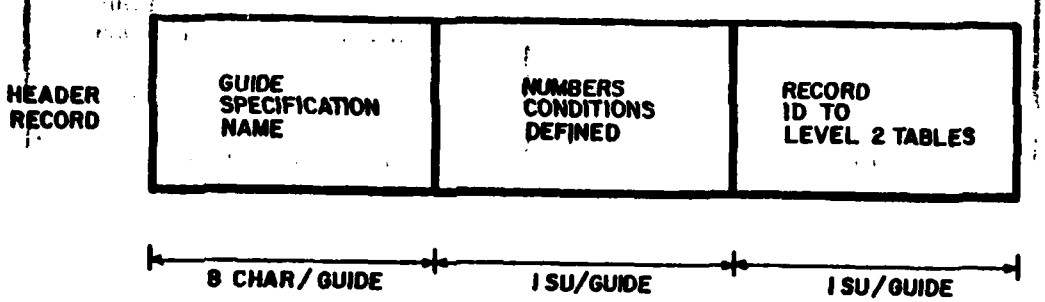
SPECIFICATION CONDITION TABLE Level 2 Header Record		PAGE NUMBER 3	NUMBER OF PAGES 6
		DATE April 1978	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISSPC2	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	First 4 characters of project specification name	1 SU/Project	4 ctrs/ project	
2.	Record ID of data records	1 SU/Project	1 SU/ project	

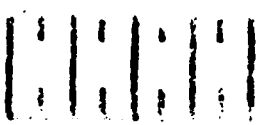
SPECIFICATION CONDITION TABLE Level 2 Data Records		PAGE NUMBER 4	NUMBER OF PAGES 6
		DATE April 1978	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISSPC 2	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Specification conditions	2 kits/condition	2 kits/ condition	1

SPECIFICATION CONDITION TABLE LEVEL I



NO DATA RECORDS



TE XT TABLE FORMAT Header Record		PAGE NUMBER 1	NUMBER OF PAGES 5
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISTTF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Table format - ID	1 SU	1 SU	1-
2	Creator's User - ID	3 SU	12 Chrs	Variable
3	Data Record - ID	1 SU	1 SU	"
	N sets of the above 3 fields as shown in figure on page 3			

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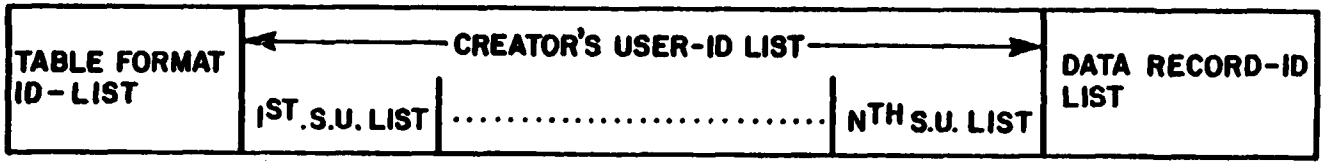
TEXT TABLE FORMAT Data Record #1		PAGE NUMBER 2	NUMBER OF PAGES 5
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
◯ CARD ⊗ DISK ◯ TAPE ◯ OTHER		FILE ID ISTTF	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	No. of skipped lines	1 SU	1 SU	1
2	Special Row Character	1 SU	1 SU	2
3	No. of columns	1 SU	1 SU	3
	One set per column, maximum of 40 columns per format.			
4	Subfield #1 (prefix code) type	1 SU	1 SU	6N - 2
5	Subfield #1 (prefix code) length	1 SU	1 SU	6N - 1
6	Subfield #2 (data fill code) type	1 SU	1 SU	6N
7	Subfield #2 (data fill code) length	1 SU	1 SU	6N + 1
8	Subfield #3 (suffix code) type	1 SU	1 SU	6N + 2
9	Subfield #3 (suffix code) length	1 SU	1 SU	6N + 3

TEXT TABLE FORMAT

HEADER RECORD:



RECORD LENGTH = 240

A USER-ID CONSISTS OF 12 CHARACTERS AND IS BROKEN UP INTO N S.U., WHICH ARE SEPARATED AND STORED AS SHOWN ABOVE.

TEXT TABLE FORMAT

DATA RECORD TYPE 1

SPECIAL ROW CHARACTER	#OF SKIPPED LINES	#OF COLUMNS (N)	PREFIX TYPE #1	PREFIX LENGTH #1	DATA FILL TYPE #1	DATA FILL LENGTH #1	SUFFIX TYPE #1	SUFFIX LENGTH #1	.....	PREFIX TYPE #N	PREFIX LENGTH #N	DATA FILL TYPE #N	DATA FILL LENGTH #N	SUFFIX TYPE #N	SUFFIX LENGTH #N

LENGTH OF RECORD = 6N+3

TEXT TABLE FORMAT

	Item Values	
1.	Special row character:	0 = (default) No solid line of special character to be printed between rows non-zero = the special character to be used to generate the line between rows.
2.	Number of skipped lines	0 = (default) No blank lines between rows Non-zero = Number of blank lines between rows
3.	Prefix code type or Suffix code type	0 = prefix or suffix subfield missing (default) 4 = blank subfield negative = special character subfield
4.	Data fill code type	1 = alphanumeric - left justified 2 = integer or alphanumeric - right justified 3 = decimal text - align decimal points 5 = alphanumeric - center justify
5.	Length	Number of characters to be printed (width of subfield)

USER TABLE SUPER-HEADER RECORD		PAGE NUMBER 1	NUMBER OF PAGES 9
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISUSR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	No. of header records @ this level	1 SU	1 SU	1
2	No. of Type 1 data records	1 SU	1 SU	2
3	Id of last header record @ this level	1 SU	1 SU	3
4	Header level No.	1 SU	1 SU	4
5	Id of 1st header record in last header level	1 SU	1 SU	5

USER TABLE HEADER RECORD		PAGE NUMBER 2	NUMBER OF PAGES 9
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 240 SUs	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISUSR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	48 User ids (stored as 1 primary and 2 secondary keys) The 1st SU of all user ids preceed all the 2nd SUs of all user ids if any; the 2nd SUs preceed the 3rd SUs of all user ids if any. (These are binary zero filled on the right if necessary)	144	576 chars	1-48 49-96 97-144
4	48 secondary keys each 1 Su in length containing the current count of how many users are logged in under the corresponding user number	48	48 SU	145-196
5	48 records ids of the type 1 data records	48	48 SU	197-240

USER TABLE DATA RECORD TYPE 1		PAGE NUMBER 3	NUMBER OF PAGES 9
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
(○) CARD (X) DISK (○) TAPE (○) OTHER		FILE ID ISUSR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	User Password	1 SU	1 SU	1
2	Supervisor Switch	1 SU	1 SU	2
3	Record Id of the first Type 2 Data Record	1 SU	1 SU	3
4	Record Id of the first Type 3 Data Record	1 SU	1 SU	4
5	Record Id of the first Type 4 Data Record	1 SU	1 SU	5
6	User Id of the Supervisor of this user	3 SU	12 Char	6-
7	First 5 Account Nos. to which this user has access (Binary Zero padded on the right if necessary)	15 SU	60 Char	
8	First 25 names of documents to which this user has access (Binary Zero Padded on the right if necessary)	75 SU	300 Char	

USER TABLE DATA RECORD TYPE 2		PAGE NUMBER 4	NUMBER OF PAGES 9
		DATE	
SYSTEM ID	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISUSR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	5 Additional Account Nos. to which this user has access, if any. (Binary Zero filled on the right if necessary)	15 SU	60 chars	1

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USER TABLE DATA RECORD TYPE 3		PAGE NUMBER 5	NUMBER OF PAGES 9
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ISUSR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	25 additional document names to which this user has access, if any (Binary Zero filled on the right if necessary.	75 SU	300 chars	1

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USER TABLE DATA RECORD TYPE 4 (MESSAGES)		PAGE NUMBER 6	NUMBER OF PAGES 9
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ISUSR	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	User Id of the sender	3 SU	12 chars	1-
2	Current date	3 SU	9 chars	
3	Current time	2 SU	8 chars	
4	Message in EDITSPEC chars	50 SU	200 chars	

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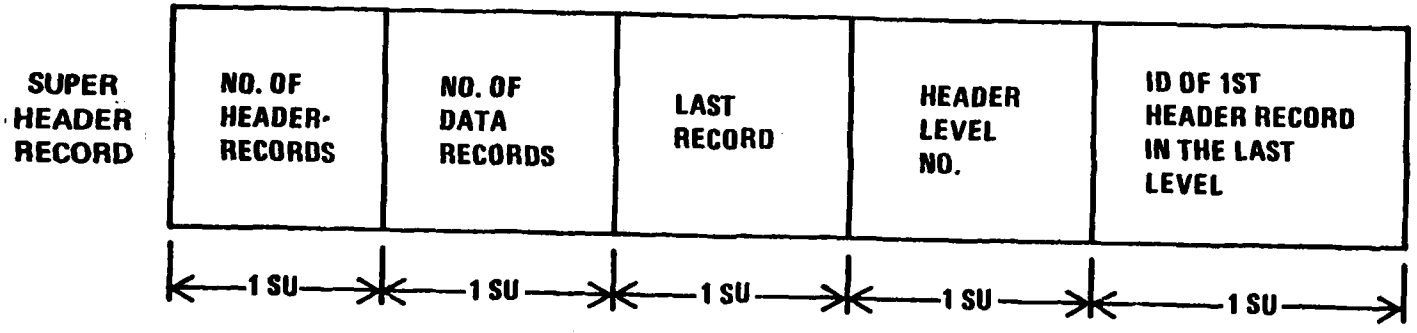
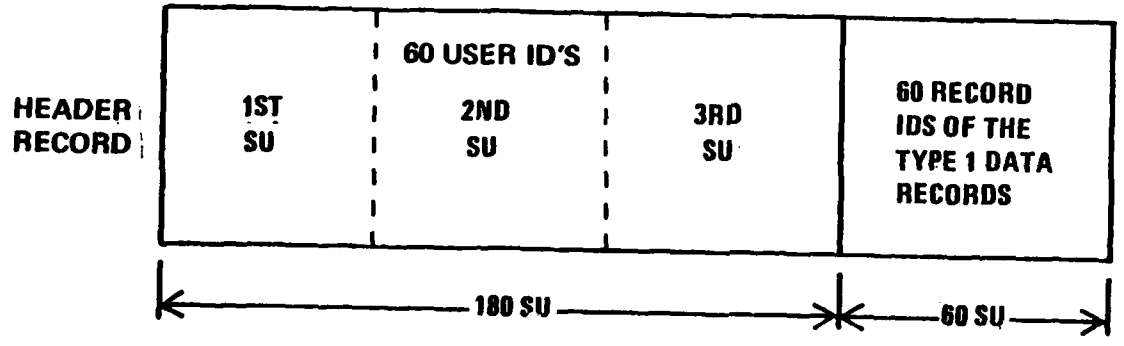
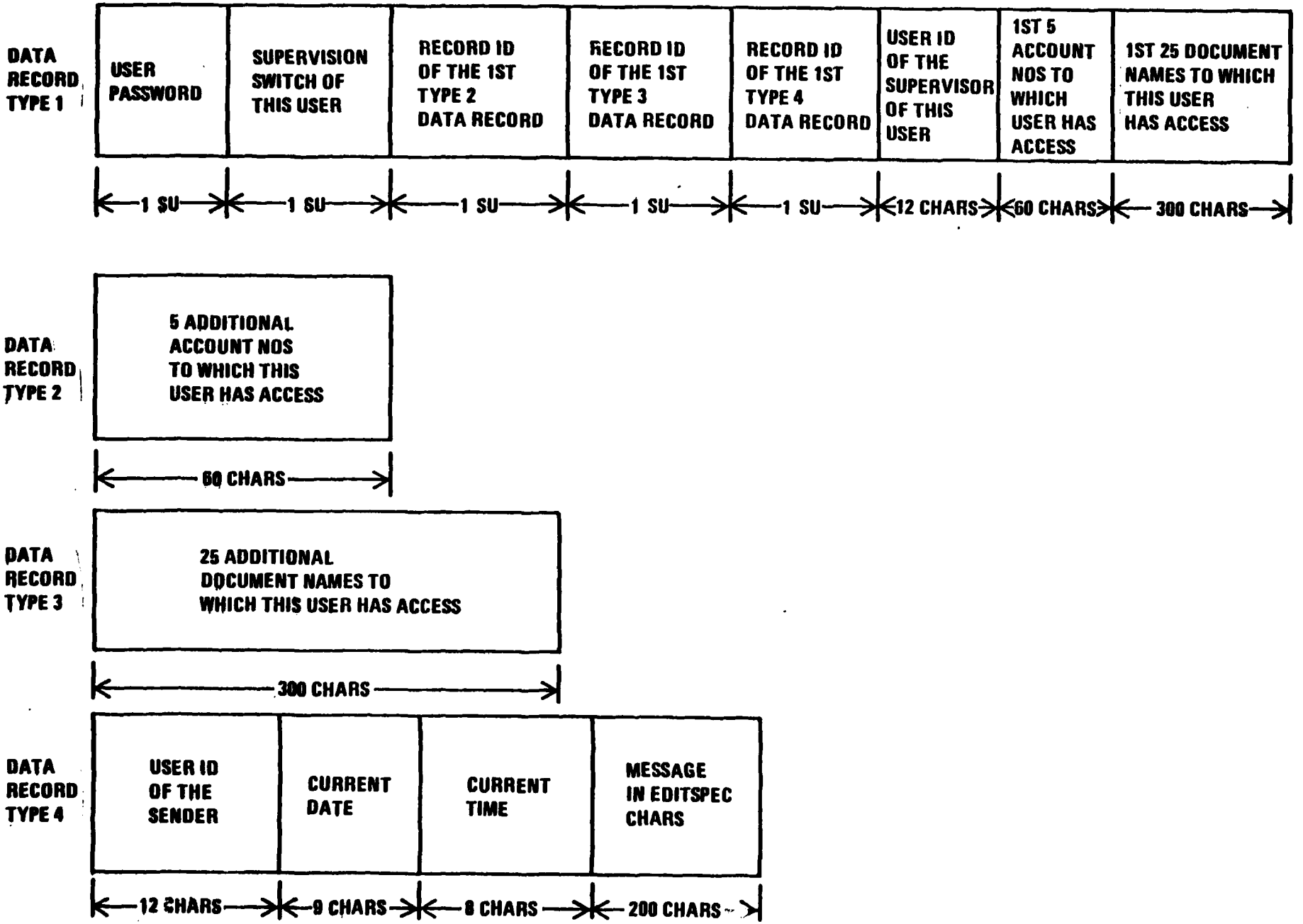
USER TABLE


SUPER HEADER RECORD
NO. OF HEADER-RECORDS
NO. OF DATA RECORDS
LAST RECORD
HEADER LEVEL NO.
ID OF 1ST HEADER RECORD IN THE LAST LEVEL
1 SU
1 SU
1 SU
1 SU
1 SU


HEADER RECORD
1ST SU
60 USER ID'S
2ND SU
3RD SU
60 RECORD IDS OF THE TYPE 1 DATA RECORDS
180 SU
60 SU

USER TABLE


DATA RECORD TYPE 1
USER PASSWORD
SUPERVISION SWITCH OF THIS USER
RECORD ID OF THE 1ST TYPE 2 DATA RECORD
RECORD ID OF THE 1ST TYPE 3 DATA RECORD
RECORD ID OF THE 1ST TYPE 4 DATA RECORD
USER ID OF THE SUPERVISOR OF THIS USER
1ST 5 ACCOUNT NOS TO WHICH USER HAS ACCESS
1ST 25 DOCUMENT NAMES TO WHICH THIS USER HAS ACCESS
1 SU
1 SU
1 SU
1 SU
1 SU
12 CHARS
60 CHARS
300 CHARS
DATA RECORD TYPE 2
5 ADDITIONAL ACCOUNT NOS TO WHICH THIS USER HAS ACCESS
60 CHARS
DATA RECORD TYPE 3
25 ADDITIONAL DOCUMENT NAMES TO WHICH THIS USER HAS ACCESS
300 CHARS
DATA RECORD TYPE 4
USER ID OF THE SENDER
CURRENT DATE
CURRENT TIME
MESSAGE IN EDITSPEC CHARS
12 CHARS
9 CHARS
8 CHARS
200 CHARS

User Table

Supervisor switch: = 1 if this user is a supervisor;

= 0 if not

AUDIT TRAIL TABLE - GENERAL Header Record		PAGE NUMBER 1	NUMBER OF PAGES 6
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITAUG	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Cycle Number - List	1 SU	1 SU	1-120
2	Data Record - ID - List	1 SU	1 SU	121-240
	240 SU per record			

AUDIT TRAIL TAB L E - GENERAL Data Record, Type 1		PAGE NUMBER 2	NUMBER OF PAGES 6
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITAUG	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	RR = -10 otherwise = 0	1 SU	1 SU	1
2	Number of detailed records in cycle	1 SU	1 SU	2
3	Record - ID of type 2 data record	1 SU	1 SU	3
4	Date	3 SU	9 Chs	4
5	Time	2 SU	8 Chs	Variable
6	User - ID	3 SU	12 Chs	Variable

AUDIT TRAIL TABLE - GENERAL Data Record, Type 2		PAGE NUMBER 3	NUMBER OF PAGES 6
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITAUG	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Old line number - LIST	120 SU	120 SU	1-120
2	New line number - LIST	120 SU	120 SU	121-240
	As many records as needed.			
	A negative line number marks end of LIST.			

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AUDIT TRAIL TABLE – GENERAL

HEADER RECORD:	CYCLE NUMBER-LIST	RECORD - ID - LIST

TOTAL RECORD LENGTH = 240
(EACH HEADER RECORD MAY CONTAIN UP TO 120 CYCLE NUMBERS & 120 RECORD-IDS).

AUDIT TRAIL TABLE – GENERAL

DATA RECORD TYPE 1.

1ST RECORD NUMBER OF DETAILED AUDIT	NUMBER OF DETAILED AUDIT RECORDS IN CYCLE	RECORD-ID OF TYPE 2 DATA RECORD	DATE	TIME	USER - ID

FIXED LENGTH RECORD; SIZE DETERMINED BY MACHINE CHARACTERISTICS.

AUDIT TRAIL TABLE – GENERAL

DATA RECORD TYPE 2.

OLD LINE #1	OLD LINE #2	– – –	NEW LINE #1	NEW LINE #2	– – –

RECORD SIZE = 240
(UP TO 120 OLD LINE NUMBERS AND 120 NEW LINE NUMBERS PER RECORD.

SEQUENCE OF RECORDS TERMINATED BY FIRST OCCURRENCE OF NEGATIVE LINE #.

AUDIT TRAIL - OTHER Data Record #1 (No Header Records)		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ITAUO	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Table Code	1 SU	1 SU	1
2	Action Code	1 SU	1 SU	2
3	Cycle Number	1 SU	1 SU	3
4	Line Number	1 SU	1 SU	4
5	Previous Change Record - ID	1 SU	1 SU	5
6	Text	Variable	Variable	6

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AUDIT TRAIL TABLE-OTHER

DATA RECORD #1

TABLE CODE	ACTION CODE	CYCLE NUMBER	LINE N NUMBER	PREVIOUS CHANGE RECORD-ID	TEXT

AUDIT TRAIL TABLE - TEXT Header Record		PAGE NUMBER 1	NUMBER OF PAGES 5
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITAUT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Line Number - List	1 SU	1 SU	1-120
2	Record-ID of data record pertaining to most recent change list	1 SU	1 SU	121-260

AUDIT TRAIL TABLE - TEXT Data Record #1		PAGE NUMBER 2	NUMBER OF PAGES 5
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
◯ CARD ⊗ DISK ◯ TAPE ◯ OTHER		FILE ID ITAUT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Action Code	1 SU	1 SU	1
2	Line number	1 SU	1 SU	2
3	Previous Record - ID	1 SU	1 SU	3
4	Text Segment - ID	1 SU	1 SU	4
5	Cycle Number	1 SU	1 SU	5
6	Other document cycle number	1 SU	1 SU	6
7	Other document name	3 SU	12 Chtrs	7
8	Text	Variable	Variable	Variable

AUDIT TRAIL TABLE - TEXT

HEADER RECORD

LINE NUMBER —LIST	RECORD-ID-LIST

RECORD SIZE = 240 SU

AUDIT TRAIL TABLE – TEXT

DATA RECORD # 1

ACTION CODE	LINE NUMBER	PREVIOUS RECORD-ID	TEXT SEGMENT-ID	CYCLE NUMBER	OTHER DOCUMENT CYCLE NUMBER	OTHER DOCUMENT NAME	TEXT

AUDIT TRAIL TABLE - TEXT

Standard Item Values

1 Action Code

1 = New
2 = Change
3 = Delete

BACKUP TABLE FOR DOCUMENT TABLES Data Record #1. (No Header Records)		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITBAK	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Valid EDITSPEC Command which affects document tables	Variable	Variable	1

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BACKUP TABLE FOR DOCUMENT TABLES

DATA RECORD #1

VALID EDITSPEC COMMAND STRING

THE SIZE OF THE RECORD IS EXACTLY EQUAL TO THE SIZE OF COMMAND STRING. THE CHARACTER REPRESENTATION IS INTERNAL EDITSPEC CODE.

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE 6 March 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ⓧ DISK ◯ TAPE ◯ OTHER		FILE ID DKYWDT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	HEADER			
1	System Assigned keyword Index Number	1 s.u.	1 s.u.	1
2	Record Id of Data Record	1 s.u.	1 s.u.	2
	DATA RECORD			
1.	Total Number of lines containing the word LIST	1 s.u.	1 s.u.	1
2.	One line number for each occurance of the word	1 s.u.	1 s.u.	2

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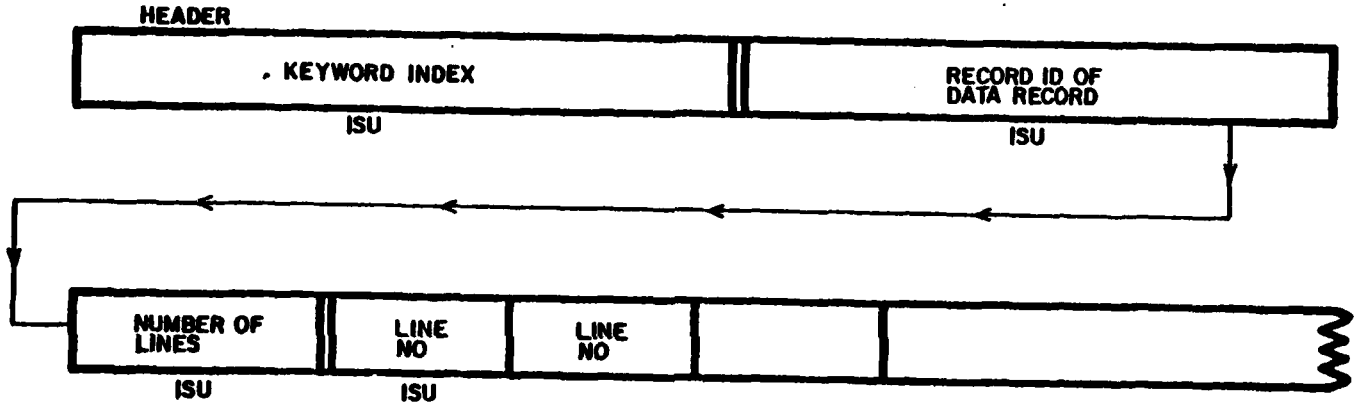
DOCUMENT KEYWORD INDEX TABLE



DOCUMENTS REFERENCED TABLE Header Record		PAGE NUMBER 1	NUMBER OF PAGES 6
		DATE	
SYSTEM ID SYSTEM	RECORD LENGTH 240	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ITDRT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Document Name	3 SU	12 Chrs	1-
2	Data Record - ID	1 SU	1 SU	Variable
	240 SU per record			
	(Document Name is broken up by S.U., as shown in figure on pg. 4)			

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DOCUMENTS REFERENCED TABLE Data Record Type 1		PAGE NUMBER 2	NUMBER OF PAGES 6
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 32	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ITDRT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	# of '*co' entries in this record	1 SU	1 SU	1
2	# of '*ct' entries in this record	1 SU	1 SU	2
	List of 10 pairs for '*co'			
3	Copy-ID (reference #)	1 SU	1 SU	2N+1
4	Line # of '*co' command	1 SU	1 SU	2N+2 (N=1 to 10)
	List of 5 pairs for '*ct'			
5	Copy id (reference #)	1 SU	1 SU	2M+21
6	Line # of '*ct' command	1 SU	1 SU	2M+22 (M=1 to 5)
	Sequence of type 1 data records is terminated by occurrence of a type 2 record.			

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DOCUMENTS REFERENCED TABLE Data Record Type 2		PAGE NUMBER 3	NUMBER OF PAGES 6
		DATE	
SYSTEM ID EDITSPEC	RECORD LENGTH 2	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITDRT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Terminating zero Word 1	1 SU	1 SU	
2	Terminating zero Word 2	1 SU	1 SU	

DOCUMENTS REFERENCED TABLE

RECORD LENGTH = 240

EACH DOCUMENT NAME IS 12 CHARACTERS LONG;
BROKEN UP INTO N STANDARD UNITS (SU).

DOCUMENTS REFERENCED TABLE

DATA RECORD TYPE 1

# OF '*CO' ENTRIES	#OF '*CT' ENTRIES	REF. # OF '*CT' 1	LINE NUMBER OF '*CO' 1	---	REF. # OF '*CO' 10	LINE-NUMBER OF '*CO' 10	REF. # OF '*CT' 1	LINE-NUMBER OF '*CT' 1	---	REF. # OF '*CT' 5	LINE-NUMBER OF '*CT' 5

RECORD LENGTH = 32

(NOTE: WHILE SPACE IS ALWAYS LEFT FOR 10 & 5 '*CO' & '*CT' ENTRIES RESPECTIVELY, THE ACTUAL NUMBER FILLED IS GIVEN IN THE FIRST & SECOND SU RESPECTIVELY).

DOCUMENTS REFERENCED TABLE

DATA RECORD TYPE 2

0	0

RECORD LENGTH = 2

(THIS IS A ZERO-RECORD, USED TO TERMINATE A SEQUENCE OF TYPE 1 RECORDS.

EXTERNAL REFERENCE - COPY TABLE Header Record		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE 16 September 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITERT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Reference Number List	1 SU	1 SU	1-120
2	Data Record - ID List 240 SU per record	1 SU	1 SU	121-240

EXTERNAL REFERENCE - COPY TABLE Data Record, Type 1		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE 16 September 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Ed Neely	
◯ CARD ⊗ DISK ◯ TAPE ◯ OTHER		FILE ID ITERT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Starting Line - Number	1 SU	1 SU	1
2	Document Name	3 SU	12 Chars	2

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EXTERNAL REFERENCE – COPY TABLE

HEADER RECORD:	REFERENCE-NUMBER LIST	DATA RECORD-ID LIST

RECORD LENGTH = 240

(EACH RECORD MAY CONTAIN UP TO 120 REF. #'s AND 120 DATA RECORD-IDS)

EXTERNAL REFERENCE – COPY TABLE

DATA RECORD TYPE 1

STARTING LINE #	DOCUMENT NAME

FIXED LENGTH RECORDS; SIZE DETERMINED BY MACHINE CHARACTERISTICS.

EXTERNAL REFERENCE - COPY TEXT Header Record		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE 9 Sep 77	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Anthony Wei	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITERC	
REC PER BLK	REMARKS 120 units per record, 2 SU's per unit		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Positive Reference Number List	(copy ID) 1 SU	1 SU	1-120
2	Record ID of Data Record List	1 SU	1 SU	121-240
	*Headers ordered by key (Copy ID)			

EXTERNAL REFERENCE - COPY TEXT Data Record		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE 9 Sep 77	
SYSTEM ID EDITSPEC	RECORD LENGTH Fixed Compile	PREPARED BY Anthony Wei	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ITERC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Starting Line Number	1 SU	1 SU	1
2	Ending Line Number	1 SU	1 SU	2
3	Document Name	3 SU	12 Ctrs	3
*	Optimum storage			

EXTERNAL REFERENCE TABLE – COPY TEXT

HEADER RECORD:	REFERENCE NUMBER LIST	DATA RECORD-ID LIST

RECORD LENGTH = 240
(EACH RECORD MAY CONTAIN UP TO 120 REF. #'S AND 120 DATA RECORD-IDS)

EXTERNAL REFERENCE – COPY TEXT

DATA RECORD TYPE 1

STARTING LINE #	ENDING LINE #	DOCUMENT NAME

FIXED LENGTH RECORDS; SIZE DETERMINED BY MACHINE CHARACTERISTICS

EXTERNAL REFERENCES-LOGIC CONDITIONS HEADER RECORDS		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH 240	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITERL	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	120 Units per record 2 SU's per unit			
1.	Reference Number	1 SU	1 SU	2N-1
2.	Record ID	1 SU	1 SU	2N
	*ordered by key			

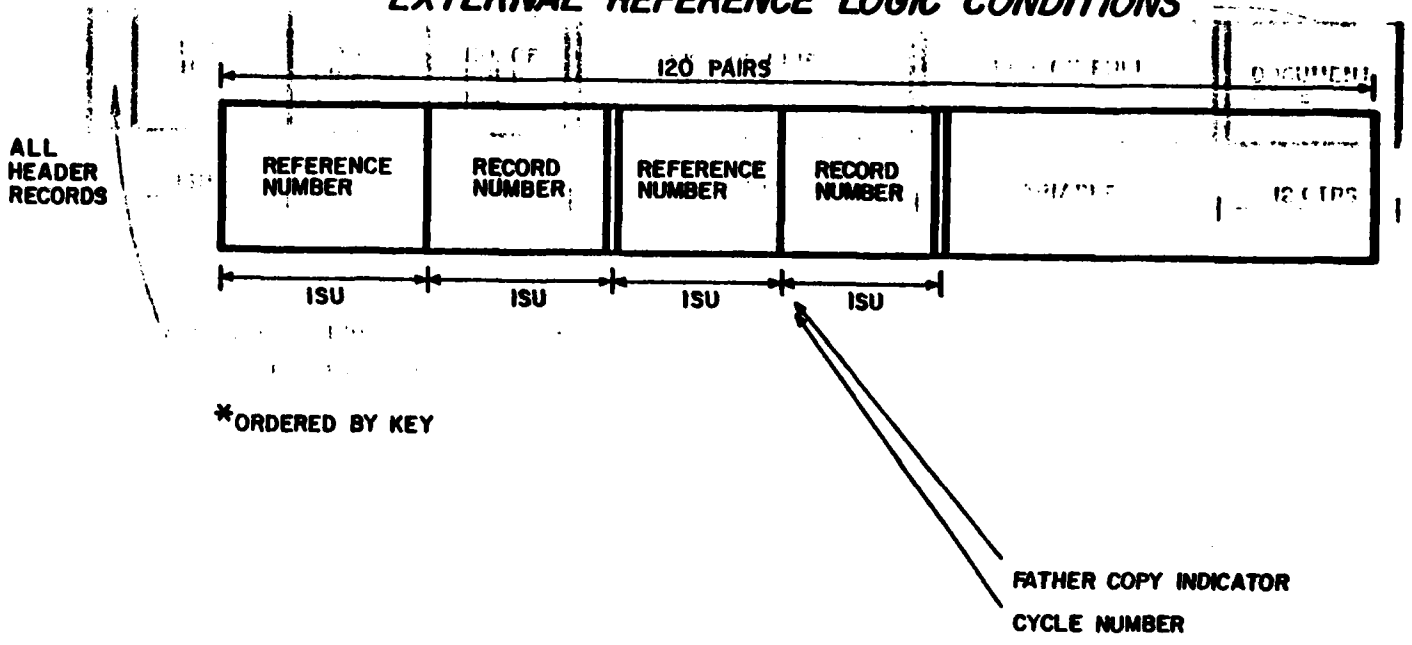
EXTERNAL REFERENCES-LOGIC CONDITIONS DATA RECORDS		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITERL	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Cycle # Father Cycle #	1 SU	1 SU	1
2.	Logic Condition ID	1 SU	1 SU	2
3.	# of Pull ID's	1 SU	1 SU	3
4.	# of line No. Pairs	1 SU	1 SU	4
5.	Document Name	3 SU	12 ctrs	
6.	List of Pull ID (S max of 5)	Var.	1 SU ea	
7.	List of Line No. Pair (max. of 5 pairs)	Var.	2 SU ea	

3 OF 4

4 OF 4

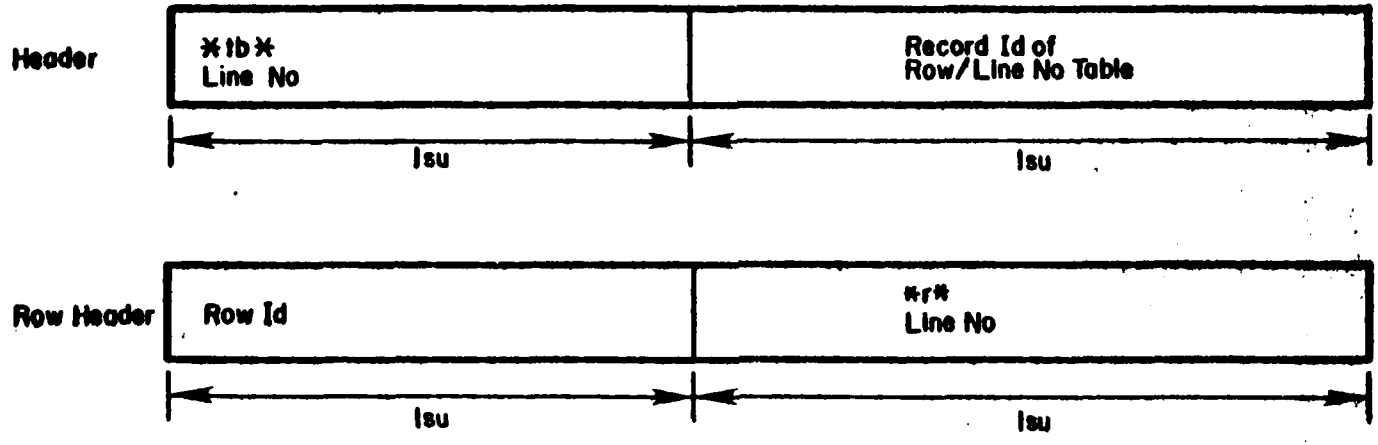
EXTERNAL REFERENCE LOGIC CONDITIONS



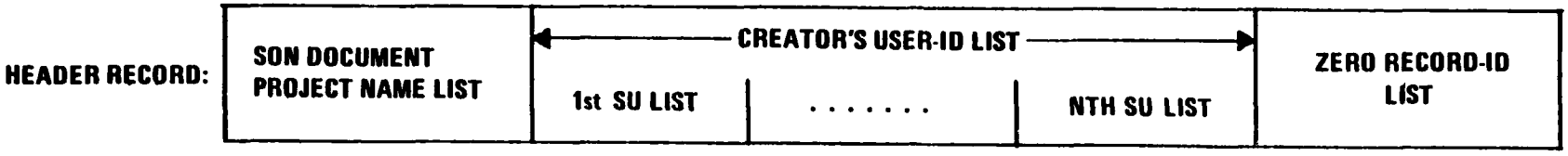
EXTERNAL REFERENCE - SON NAMES Header Record		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE 16 September 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH 240	PREPARED BY Ed Neely	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ITERS	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Son document name	3 SU	12 chars	1
2	Creator's User - ID	3 SU	12 chars	Variable
3	Zero Data - Record - ID (No Data Records) 240 SU per record (Creator's USER-ID is broken up by S.U., as shown in Figure on page 2)	1 SU	1 SU	Variable

ITTRL TABLE


Header
lb
Line No
Record Id of
Row/Line No Table
lsu
lsu
Row Header
Row Id
r
Line No
lsu
lsu

EXTERNAL REFERENCE – SON NAMES



RECORD LENGTH = 240
EACH 'CREATORS USER-ID' IS 12 CHARACTERS LONG;
BROKEN UP INTO N STANDARD UNITS (S.U.)

NOTE 1: CREATOR'S USER-ID IS THE "SECONDARY KEY" FOR THIS TABLE
NOTE 2: THIS TABLE HAS NO DATA-RECORDS; SO ALL DATA RECORD-IDS ARE ZERO.

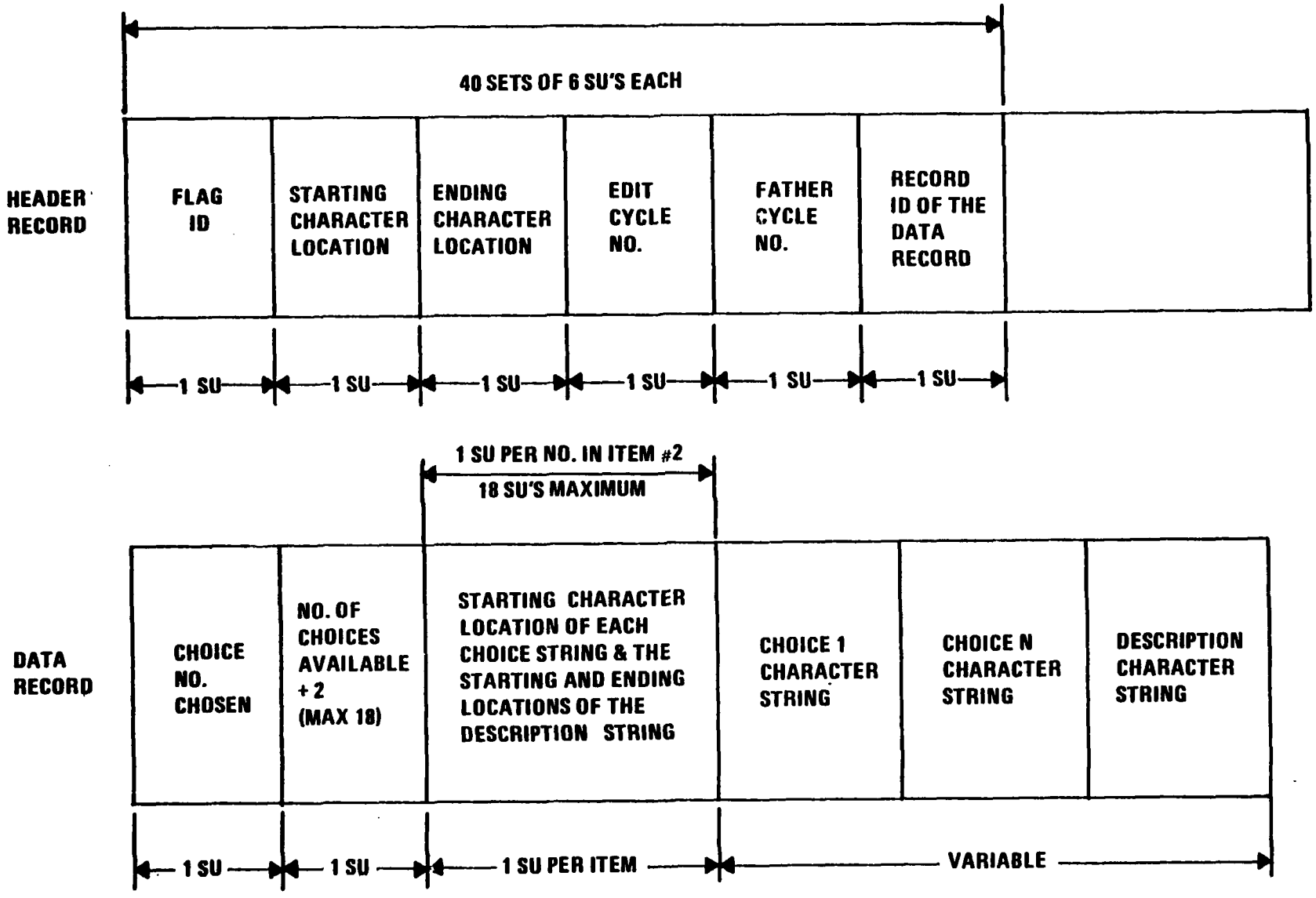
FLAG TABLE HEADER		PAGE NUMBER 1	NUMBER OF PAGES 3
		DATE 23 August 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH 243	PREPARED BY Shahid Siddiqi	
( ) CARD (X) DISK ( ) TAPE ( ) OTHER		FILE ID ITFLG	
REC PER BLK	REMARKS 60 sets of 4 SU's each		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Flag Id (primary key)	1	1	1-40
2	Starting character Location, of the choice No selected for this flag, in the data record (secondary key)	1	1	41-80
3	Ending character Location of the choice selected (secondary key)	1	1	81-120
4	Document Edit Cycle No. (secondary Key) (Negative for Lists)	1	1	121-160
5	Document Father Cycle No. (secondary key)	1	1	161-200
6	Record Id of the Data Record of this flag Id	1	1	201-240

Flag Table Data Record		PAGE NUMBER 2	NUMBER OF PAGES 3
		DATE 23 August 1977	
SYSTEM ID EDITSPEC	RECORD LENGTH Variable	PREPARED BY Shahid Siddiqi	
○ CARD (X) DISK ○ TAPE ○ OTHER		FILE ID ITFLAG	
REC PER BLK	REMARKS		

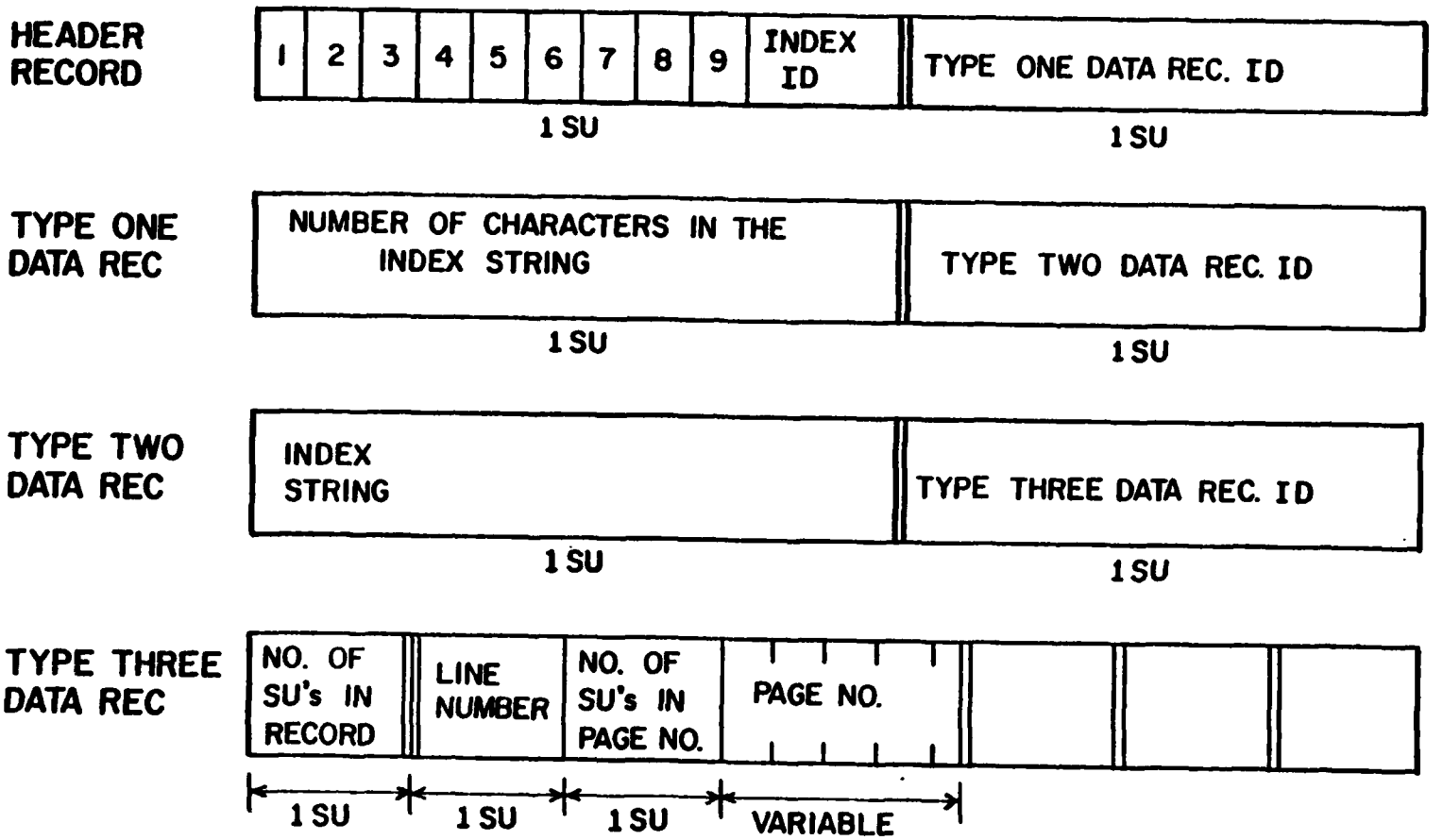
RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1	Flag string choice No. Entered by the .FC command	1		1
2	The total No. of flag choice strings (max 16) available for this flag Id + 1 (description string) +1	1	1	2
3	The starting character locations of each choice string and the description string	17	1	3
	The ending character location of the description string (Negative for list selection)	1	1	
	Choice and description strings (in machine characters)	Variable	Variable	
	for lists the last two choices are:			
	1 - punctutaion character			
	2 - punctuation work before last item in list			

FLAG TABLE


40 SETS OF 6 SU'S EACH
HEADER RECORD
FLAG ID
STARTING CHARACTER LOCATION
ENDING CHARACTER LOCATION
EDIT CYCLE NO.
FATHER CYCLE NO.
RECORD ID OF THE DATA RECORD
1 SU
1 SU
1 SU
1 SU
1 SU
1 SU
1 SU PER NO. IN ITEM #2
18 SU'S MAXIMUM
DATA RECORD
CHOICE NO. CHOSEN
NO. OF CHOICES AVAILABLE +2 (MAX 18)
STARTING CHARACTER LOCATION OF EACH CHOICE STRING & THE STARTING AND ENDING LOCATIONS OF THE DESCRIPTION STRING
CHOICE 1 CHARACTER STRING
CHOICE N CHARACTER STRING
DESCRIPTION CHARACTER STRING
1 SU
1 SU
1 SU PER ITEM
VARIABLE

RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE Dec 3 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY E. Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITIX	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	HEADER RECORD			
1.	Index ID	1 SU	1 SU	1
2.	Type 1 Data Rec. ID	1 SU	1 SU	121
	TYPE ONE DATA REC.			
1.	No. Characters in String	1 SU	1 SU	1
2.	Type 2 Data Rec. ID	1 SU	1 SU	121
	TYPE TWO DATA REC.			
1.	Actual Index String	10 SU's	Var.	1
2.	Type 3 Data Rec. ID	1 SU	1 SU	Var.
	TYPE THREE DATA REC.			
1.	No. SU's in this Record (Set/ entry)	1 SU	1 SU	1
2.	Line Number	1 SU	1 SU	2
3.	No. SU's in Page Number	1 SU	1 SU	3
4.	Page Number - One SU per Machine Character.			


HEADER RECORD
1
2
3
4
5
6
7
8
9
INDEX ID
TYPE ONE DATA REC. ID
1 SU
1 SU
TYPE ONE DATA REC
NUMBER OF CHARACTERS IN THE INDEX STRING
TYPE TWO DATA REC. ID
1 SU
1 SU
TYPE TWO DATA REC
INDEX STRING
TYPE THREE DATA REC. ID
1 SU
1 SU
TYPE THREE DATA REC
NO. OF SU's IN RECORD
LINE NUMBER
NO. OF SU's IN PAGE NO.
PAGE NO.
1 SU
1 SU
1 SU
VARIABLE

INDEX TABLE

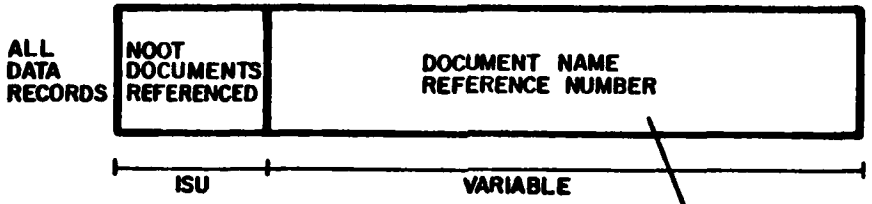
LOGIC CONDITION TABLE HEADER RECORD		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH 240	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ITLC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	120 Sets per record			
1.	Logic Condition ID	1 SU	1 SU	2N-1
2.	Record ID of logic Cond. ID	1 SU	1 SU	2N
	*Ordered by key			

LOGIC CONDITION TABLE ALL DATA RECORDS		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH Variable	PREPARED BY Ed Neely	
◯ CARD (X) DISK ◯ TAPE ◯ OTHER		FILE ID ITLC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Father Cycle No.	1 SU	1 SU	1
2.	No. Documents Addressed One per document in #2	1 SU	1 SU	2
3.	Document Name Reference No. (the keys in ITERL table header) Maximum of 5 documents/logic Command & Optimum storage	3 SU 1SU	12 ctrs 1 SU	

LOGIC CONDITION TABLE



– PULL TD
+ EXTERNAL FIGURES

*OPTIMUM USE OF STORAGE

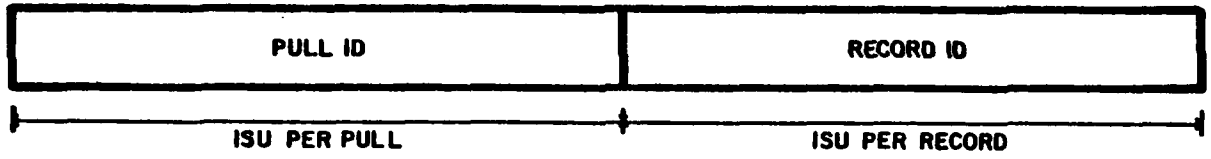
RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE November 1, 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY NEELY	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITPUL	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Pull Id	1 SU	1 SU	1
2.	Record Id	1 SU	1 SU	121

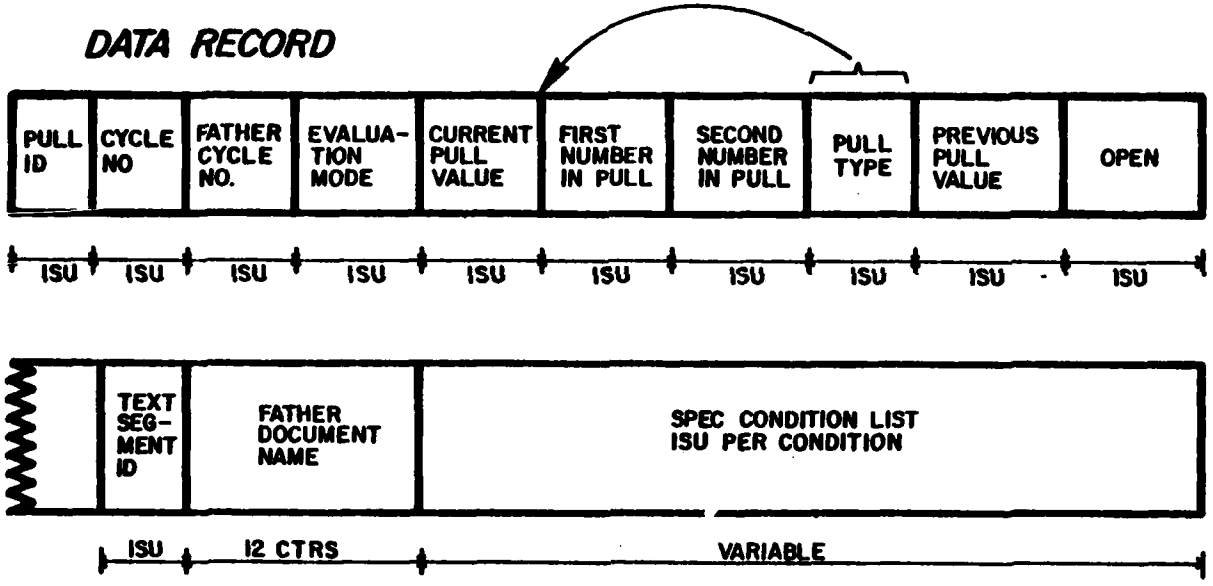
RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE November 1, 1979	
SYSTEM ID	RECORD LENGTH	PREPARED BY Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITPUL	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Pull Id	1 SU	1 SU	1
2.	This document Cycle No.	1 SU	1 SU	2
3.	Father document Cycle No.	1 SU	1 SU	3
4.	Evaluation Mode	1 SU	1 SU	4
5.	Current Pull Value	1 SU	1 SU	5
6.	Pull Type	1 SU	1 SU	6
7.	First Number in Pull	1 SU	1 SU	7
8.	Second Number in Pull	1 SU	1 SU	8
9.	Previous Pull Value	1 SU	1 SU	9
10.	Open - Not used	1 SU	1 SU	10
11.	Text Segment Id	1 SU	4 ctrs	11
12.	Father Document Name	3 SUs	12 ctrs	12
13.	Spec Condition List	1 SU per	1 SU per	Variable

PULL TABLE HEADER RECORD



DATA RECORD



DATA RECORD:

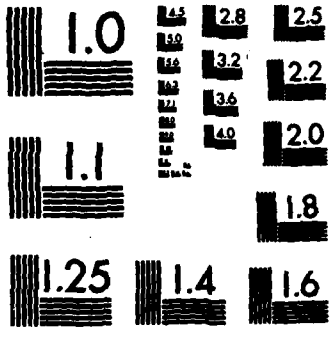
1. Pull Id
    a. Positive - active pull
    b. Negative - deleted pull
2. Evaluation Mode
    a. 0 - one pull selected
    b. 1 - all pulls selected
    c. 2 - one pull rejected
    d. 3 - all pulls rejected

TABLE OF CONTENTS HEADER		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITABC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Table ID (1-9)	1 SU		
2.	First Record ID in a table (i.e. location 120+c contains the first record ID of the Data Record in the i table)	1 SU		

AD-A124 287 EDITSPEC: SYSTEM MANUAL VOLUME III TABLE HANDLER AND TABLE DESCRIPTION REVISION(U) CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL E S NEELY FEB 82 3/3

UNCLASSIFIED DOD/DF-83/002E F/G 9/2 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE OF CONTENTS DATA RECORDS		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITABC	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	No. of Chars. in page number	1 SU		
2.	No. of Chars. in text string	1 SU		
3.	Page No. String	Max. of 15 SU's		
4.	Test String	Max. of 60 SU's		
	TOTAL	Max of 77 SU's		

TABLE OF CONTENTS DATA RECORDS

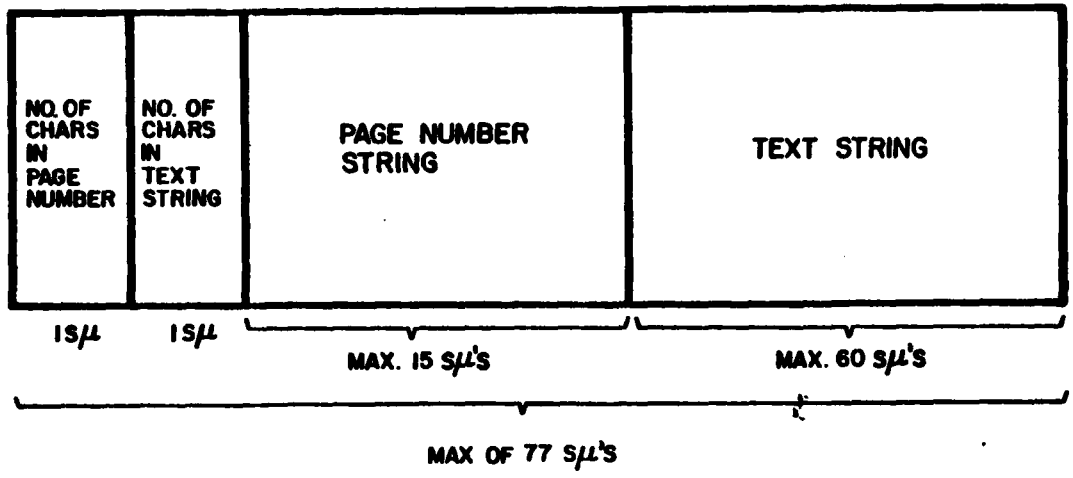
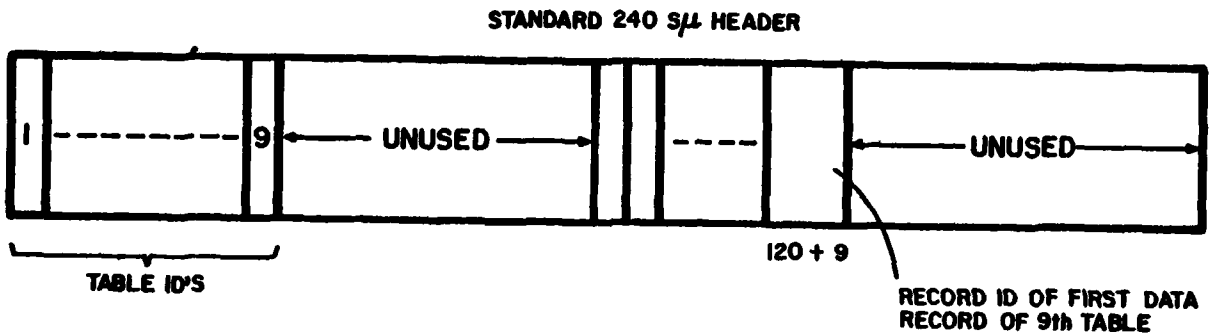


TABLE OF CONTENTS HEADER



HEADER IS INITIALIZED BY THE PRINT ROUTINE AND DOES NOT CHANGE THEREAFTER.

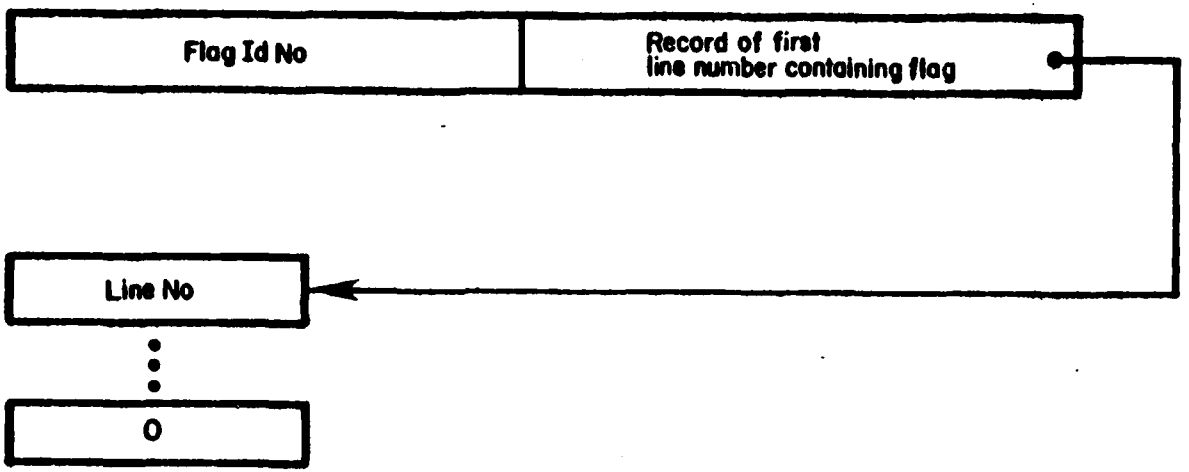
RECORD LAYOUT For use of this form, see AR 18-7; the proponent agency is Office of the Assistant Vice Chief of Staff.		PAGE NUMBER 1	NUMBER OF PAGES 2
		DATE November 18, 1981	
SYSTEM ID	RECORD LENGTH	PREPARED BY E.S. Neely	
◯ CARD (XXX) DISK ◯ TAPE ◯ OTHER		FILE ID ITTFL	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
	HEADER			
1.	FLAG Id No.	1 su	1 su	
2.	Record Id of first line number containing this flag	1 su	1 su	
	DATA RECORDS			
1.	Line Number containing this flag - zero ends list	1 su	1 su	

DA FORM 3493-R, 1 May 69

ITTFL TABLE

Pen 2 of 2



Point / Pack Table

TEXT TABLE HEADER		PAGE NUMBER 1	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITEXT	
REC PER BLK	REMARKS		

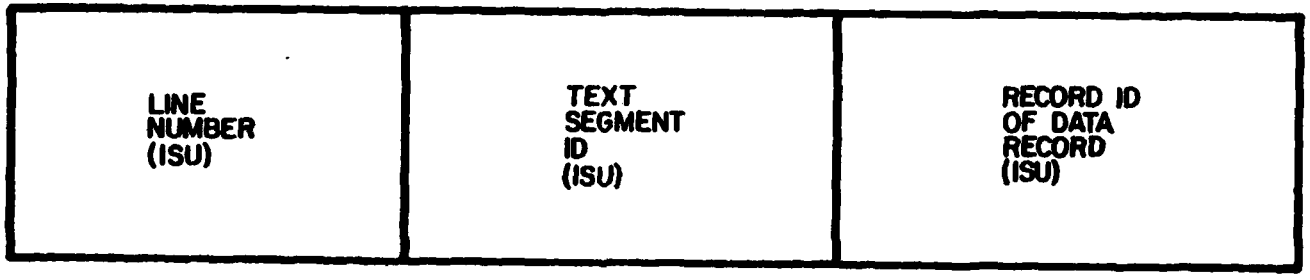
RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Line number	1 SU		
2.	Text segment ID	1 SU		
3.	Record ID	1 SU		

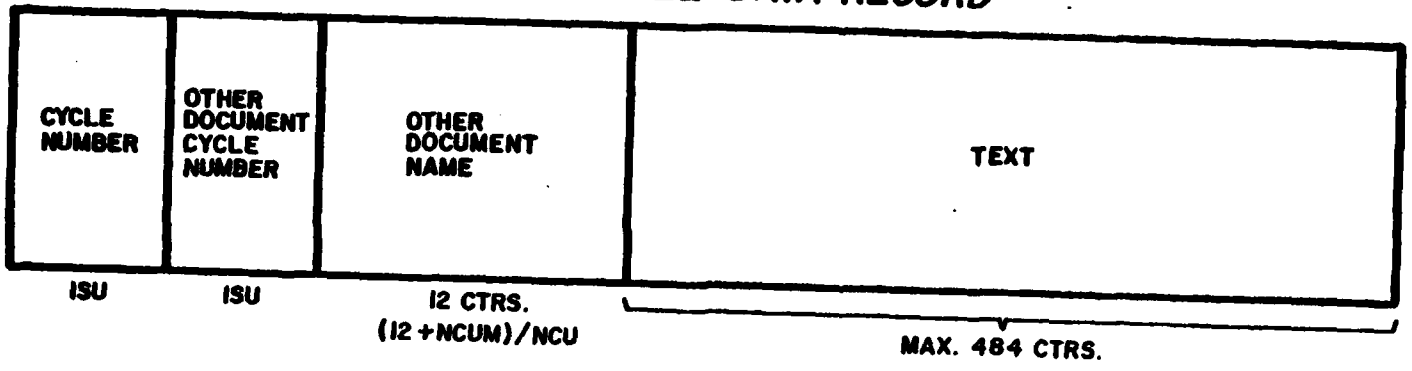
DA FORM 3493-R, 1 May 69

TEXT TABLE DATA RECORD		PAGE NUMBER 2	NUMBER OF PAGES 4
		DATE	
SYSTEM ID	RECORD LENGTH	PREPARED BY Ed Neely	
◯ CARD ◯ DISK ◯ TAPE ◯ OTHER		FILE ID ITEXT	
REC PER BLK	REMARKS		

RELATIVE POSITION	IDENTIFICATION OF ELEMENT (Field)	ABBREVIATION	LENGTH/ CLASS	LOCATION
1.	Cycle number (this document)		1 SU	
2.	Other document's cycle number		1 SU	
3.	Other document name		12 ctrs	use (12+ NCUM)/N CU SU's
4.	Text	Max. 484 ctrs		

TEXT TABLE HEADER



243 SU'S STANDARD HEADER

TEXT TABLE DATA RECORD